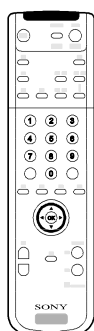


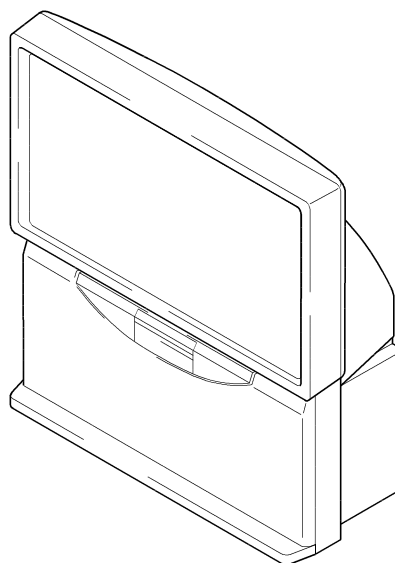
SERVICE MANUAL

RE-2D CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-41DS1U	RM-892	UK	SCC-P26A-A
KP-41PZ1B	RM-892	AEP	SCC-P23A-A
KP-41PZ1D	RM-892	FR	SCC-P22A-A
KP-41PZ1E	RM-892	AEP	SCC-P22B-A



RM-892



MICROFILM

* Please file according to model size. ...

KP-41DS1U/PZ1B/PZ1D/PZ1E

RM-892

SPECIFICATIONS

TV system

I

B/GIH, D/K

Colour system

PAL, SECAM

NTSC 3.58, 4.43 (only Video In)

Channel coverage

VHF: E2-E12

UHF: E21-E69

UHF: B21-B69 KP-41DS1U

CATV: S1-S20

HYPER: S21-S41













D/K: R1-R12, R21-R69

Projected picture size





41 inches

Approx. 103 cm measured diagonally

Rear Terminals

-   Centre speaker input terminals (2 terminals)
-  (L,R) audio outputs (phono jacks)
-  1/  21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output
-  2/  2 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output
-  3 21-pin Euro connector (CENELEC standard) including audio/video input, selectable audio/video output (selectable the same output source as  2/  2 connector)
-  PCMCIA socket KP-41DS1U
-  MODEM connection KP-41DS1U

Front Terminals

-  2 video input - phono jack
-  2 audio inputs - phono jacks
-  2 S video input - 4 pin DIN
-  Headphones jack - minijack stereo

Sound output

2 × 30 W (music power)

2 × 15 W (RMS)

Centre SP input

30 W (RMS) (using as the centre speaker)

Power consumption

165 W KP-41DS1U

145 W KP-41PZ1B/PZ1D/PZ1E

Standby Power consumption

0.7 W

Dimensions (w × h × d)

Approx. 1020 × 1115 × 417 mm

Weight

Approx. 53 kg

Accessories supplied

- 1 Remote Control (RM-892)
- 2 Batteries (IEC designated)
- 1 Safety foot

Other features

Digital Comb filter (High resolution)
TELETEXT, Fastext, EPG
NICAM
Sleep Timer
Smartlink
PCMCIA connection KP-41DS1U
MODEM connection KP-41DS1U
Digital terrestrial reception KP-41DS1U

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!


COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SECTION 1

SELF DIAGNOSIS FUNCTION

Diagnostic Errors

The errors indicated below can be read using an Error Reader Display (Part Number S-188-900-10) connected to the service connector. Once an error has been detected it will then be displayed on the two digit error reader.

During the power up procedure and during normal run time, the micro's self diagnostic procedures monitor for various errors, as described in the table below:

Error Number	Error Description
00	No error (TV Error Reader shows 00 in normal condition)
01	Not allowed (may be confused with Sircs response flash on LED)
02	Protection circuit trip (OCP, OVP & No V-Sync)
03	Reserved for OVP (Included in error 2 for BE-3E)
04	Reserved for No V-Sync (Included in error 2 for BE-3E)
05	AKB
06	IIC Scl Low < Power Up Only >
07	IIC Sda Low < Power Up Only >
08	IIC Sda & Scl Low < Power Up Only >
09	Jungle controller no acknowledge < Power Up Only >
10	Video Switch (CXA2040) no acknowledge < Power Up Only >
11	Tuner no acknowledge
12	MSP no acknowledge
13	NVM no acknowledge
14	AV Switch (CXA2089) no acknowledge (DS10 & DX10)
15	Not Used
16	Port Expander (CXA1875) no acknowledge (DS10 & DX10)
17	Not Used
18	Dynamic Convergence (CXA8070) no acknowledge (Not used for RE-2D)
19	Cannot initialize jungle (after initial power on check OK) - < Chassis Initialization >
20	Jungle controller response failure after power up check (+9V test)
21	Video Switch (CXA2040) cannot power on reset - < Chassis Initialization >
22	Video Switch (CXA2040) response failure after power up check (+9V test)
23	NVM acknowledge fail after initialization (STBY +5V - same as micro!)
24	MSP run-time failure < May Not Be Fatal - Display On Error Reader >
25	DSP run-time failure < May Not Be Fatal - Display On Error Reader >
26	M3L bus Clock low time out after data send < Run-Time Failure >
27	M3L bus Clock low time out after data send < At Power Up Check >
28	M3L bus Clock low time out after data send < At Initialization >
29	M3L Txd Low < Power Up Only >
30	M3L Rxd Low < Power Up Only >
31	M3L Enable Low < Power Up Only >
32	Compact Text test fail < Power Up Only >
33	Compact Text does not respond (+5V test)
34	Compact text run-time failure < May Not Be Fatal - Display On Error Reader >

Protection Error (Error 2):

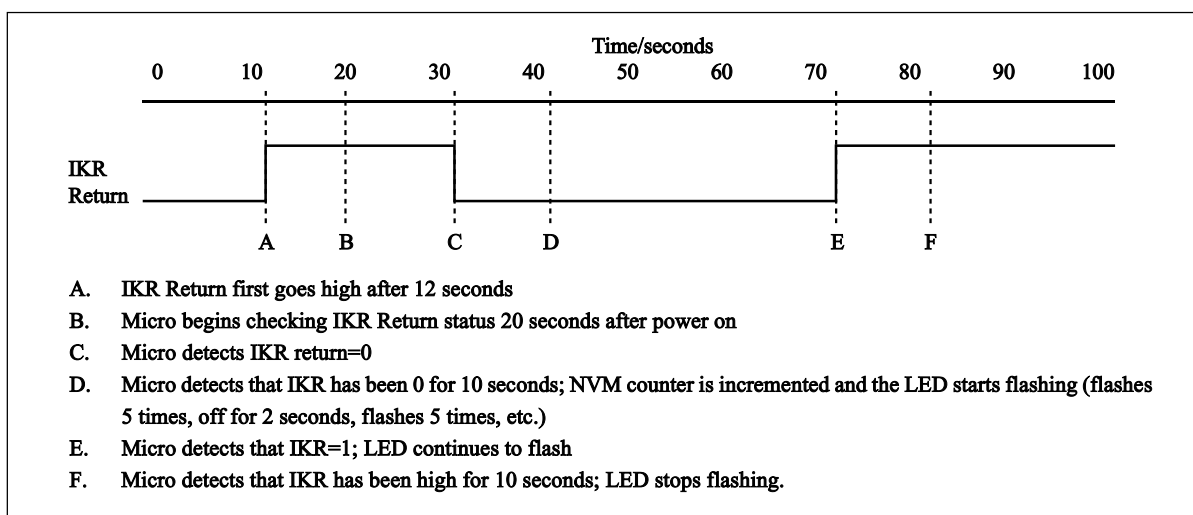
Once every main loop (approximately 200ms OSD mode, 50ms text or menu mode), the micro checks the protection pin (pin 66). If the protection pin is high 6 successive times, a protection error is diagnosed. The protection pin is **not** checked during the first 3-4 seconds after AC on.

If this error is diagnosed, the respective NVM register will be updated and the set goes straight into diagnostic standby with 2 flashes - no reset is attempted.

AKB Error (Error 5):

Once every main loop the micro checks the AKB stability by reading the IKR return from the jungle. IKR=1 means that AKB is stable, IKR=0 means that AKB is unstable. If the AKB status is unstable for 10 seconds, an AKB error is diagnosed. AKB stability is **not** checked during the first 20 seconds after AC on.

*If this error is diagnosed, the respective NVM register will be updated and the response LED will flash 5 times continually, but the set will **not** go into standby. If the AKB status becomes stable, and remains stable for 10 seconds, the LED will stop flashing.*



Startup Diagnostic Errors (Errors 6-18, 27, 29-32):

These errors are checked for during the power up sequence before attempting to retrieve data from the NVM.

6 - SCL pin low

7 - SDA pin low

8 - Both the SCL and the SDA pin are low

9 - No acknowledge from the jungle (CXA2076)

10 - No acknowledge from the video switch (CXA2040)

11 - No acknowledge from the tuner

12 - No acknowledge from the MSP

13 - No acknowledge from the NVM

14 - No acknowledge from the CXA2089 video switch (DS10 & DX10)

16 - No acknowledge from the CXA1875 Port Expander (DS10 & DX10)

18 - No acknowledge from the Dynamic Convergence (CXA8070) : Not used for RE-2D

27 - M3L_TXD pin low after Compact Text RAM test

29 - M3L_TXD pin low

30 - M3L_RXD pin low

31 - M3LEN pin low

32 - Compact Text RAM test fail

If any of these errors are detected, the respective NVM register will be incremented. The software will then carry on with the power up sequence.

General I²C Device Run-time Errors (Errors 19-23):

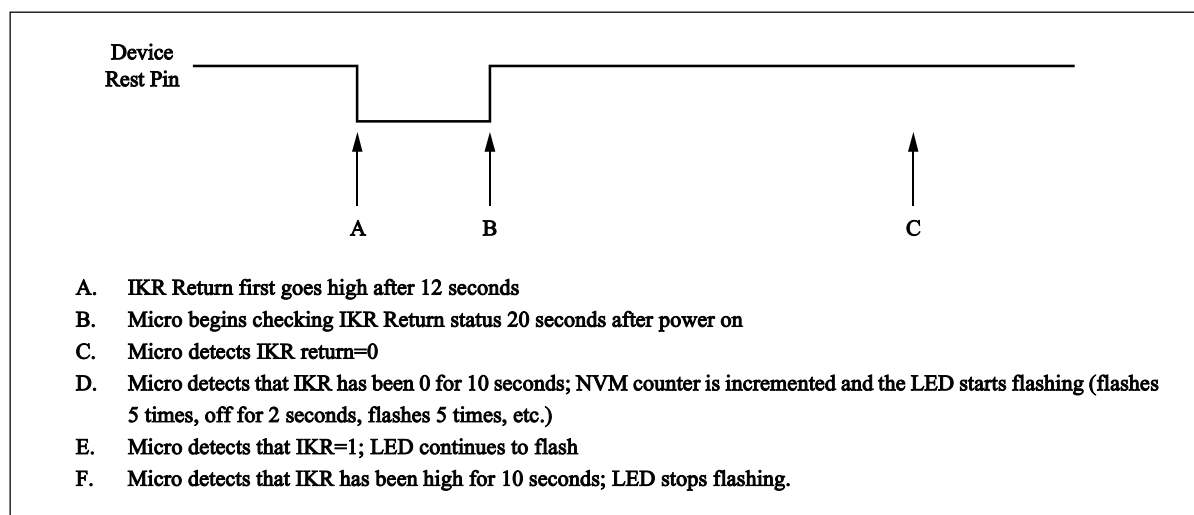
- 19 - No acknowledge from Jungle when attempting to initialize
- 20 - No acknowledge from Jungle when attempting to read registers
- 21 - AV Switch cannot complete reset during initialization
- 22 - No acknowledge from AV Switch when attempting to read registers
- 23 - No acknowledge from NVM when attempting to read or write

If any of these errors are detected, the respective NVM register will be incremented and the software will carry on.

Compact Text Run-time Errors (Errors 26, 28, 33 & 34):

- 26 - M3L_TXD pin low when checking register 81 (implies that no communication was possible)
- 28 - M3L_TXD pin low when attempting to initialize (implies that no communication was possible)
- 33 - Compact Text RAM test fail during initialization of devices

In the case of these errors, the 'device reset' pin will be held low for 60ms, causing a hardware reset of Compact Text. Following this reset, a longer timeout will be allowed for the M3L bus to recover. If the error still exists, the NVM register will be incremented and the software will carry on.



- 34 - Register 81 check fail, but M3L_TXD pin high (implies that Compact Text has either reset or become corrupted).

In this case, the 'device reset' pin will be held low for 60ms, causing a hardware reset of Compact Text. Compact Text will then be re-initialized and the NVM counter updated. This is the same as for errors 26, 28 and 33 except that the M3L bus timeout is not changed. Also, during the reset, Compact Text OSD will be disabled (using pin 59 of the micro). Only when the sync registers have been refreshed twice, will the OSD be enabled.

MSP and DSP Run-time Errors (Errors 24 & 25):

Error 24 can be caused by any of the following:

- After MSP initialization, Scart Prescale Register check fail (implies that the MSP has either reset or become corrupted).
- MSP fails to acknowledge reset instruction
- Scart Prescale Register check fail (implies that the MSP has either reset or become corrupted).

Error 25 is caused by:

- DSP test byte corrupted (implies that the DSP has either reset or become corrupted).

For both of these errors, the software will refresh the MSP and DSP registers. If the errors still exist, the NVM counter will be incremented, and the software will carry on.

Error Display Mode

Error Display Mode is entered by the following sequence of commands:

Standby → Information → Digit 5 → Volume Down → TV

This mode will display a special menu, which will list all possible errors and the number of occurrences of each error (0 – 255, as stored in the NVM). There will also be a display of the current error (00 if no error). This display mode will appear as follows:

ERROR DISPLAY MODE			
Current Error Code = 00			
Error Code	Occurrences	Error Code	Occurrences
2	2	19	0
3	—	20	0
4	—	21	0
5	0	22	0
6	0	23	0
7	0	24	0
8	0	25	4
9	0	26	5
10	0	27	89
11	0	28	3
12	0	29	0
13	0	30	0
14	0	31	0
15	3	32	0
16	0	33	3
17	0	34	38
18	6		

Whilst in this mode, the number of occurrences of each error can be reset to 0 by TT08.

Only AC off or standby off can exit this mode.

The Current Error Code can also be read by using a TV Error Reader (I2C slave address 42H). This device simply receives 1 data byte, which is the error number in binary coded decimal form.

KP-41DS1U/PZ1B/PZ1D/PZ1E

RM-892

TT command table

TT Mode is available by pressing the test key twice. It is exited by pressing 0 twice, or by pressing the Test key, or by pressing the TV key or by switching the set into standby.

Pressing the Menu key when in TT mode enters in main Test Menu. Pressing the Menu key again enters in the User Menus.

TT Modes 40-49 require TV to be in program 59 before the command is accepted. Some Test models are dependant upon the model.

TT command	Meaning
<Menu>	Enter into service menu
00	Exit from TT mode
01	Set picture level to maximum
02	Set picture level to minimum
03	Set volume to 35%
04	Set volume to 50%
05	Set volume to 65%
06	Set volume to 80%
07	Ageing mode enable / disable
08	Shipping condition
09	Reset language select menu on power up
11	Sub Picture adjustment (use red / yellow)
12	Sub Colour adjustment (use red / yellow)
13	Sub Brightness adjustment (use red / yellow)
14	Text H-Position
16	Picture level 50 %
21	Destination A/D (East Menu / West Text)
22	Destination L (West Menu / West Text)
23	Destination E (West Menu / West Text)
24	Destination U (West Menu / West Text)
25	Destination D (East Menu / Greek Text)
26	Destination B (East Menu / West Text)
27	Destination K (East Menu / East Text)
28	Destination R (Russian Menu / Russian Text)
32	Digital Status on/off
41	Re-initialize NVM
42	Re-initialize Geometry settings
43	Default programme info in NVM with Pencoed factory channel setup
44	Default favourite pages to 100, 101, 102, 103
45	Switch off all Channel Locks
46	Dealer commander mode (pending)
47	Default MSP Settings
48	Restore NVM test byte Undo TT49
49	Delete NVM test byte Sets virgin NVM
52	Noise on Left Speaker
53	Noise on Right Speaker Only

54	Noise on Centre Speaker Only
55	Noise on Surround Speaker Only
56	Set Colour to minimum and Picture to maximum
57	Set Colour & Picture to minimum and adjust sub-brightness
68	Pre-Set AV Labels
69	Picture Blanking Pulse Enable/ Disable
72	Balance Left/ Right (Press RED Key for balance left, YELLOW for balance right, and GREEN for centre balance)
73	Dual sound Headphones (GREEN key for A, BLUE key for B)
74	Dual sound Speakers (GREEN key for A, BLUE key for B)
77	Setup Trap Switch
78	Set Screen Size
79	Wide Setup
81	Velocity Modulation ON
82	Velocity Modulation OFF
83	Special Picture Mode - Personal mode, reset & brightness =0
84	Text Interlace Odd (Non Interlace mode = 3)
85	Text Interlace Even (Non interlace mode = 2)
86	Auto Cut Off ENABLE
87	Auto Cut Off DISABLE
88	Diagnostics OFF
89	Diagnostics ON
91	Clear & Disable OSD
92	Enable OSD
93	D / K Nicam Enable
94	D / K Nicam Disable
95	Reset language select menu on power up
96	Set all programme labels to default
97	MHEG mode on/off

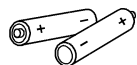
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Getting Started - Overview

Checking the Accessories Supplied



One Remote Control (RM-892)

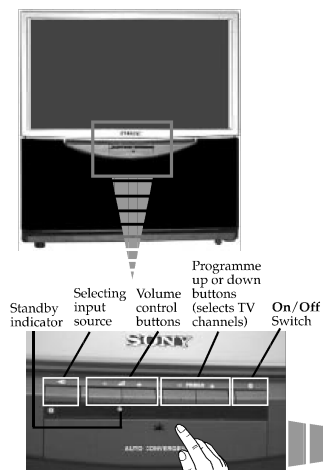


Two batteries (R6 type)



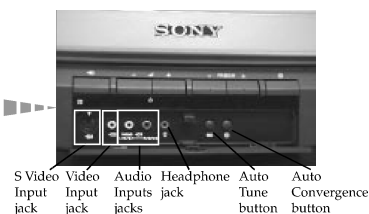
One safety foot

Overview of Projection TV Buttons



Standby indicator
Selecting input source
Volume control buttons (selects TV channels)
Programme up or down buttons (selects TV channels)
On/Off Switch

Press the flap on the front of the projection TV to reveal the front panel (press on the mark ↓)



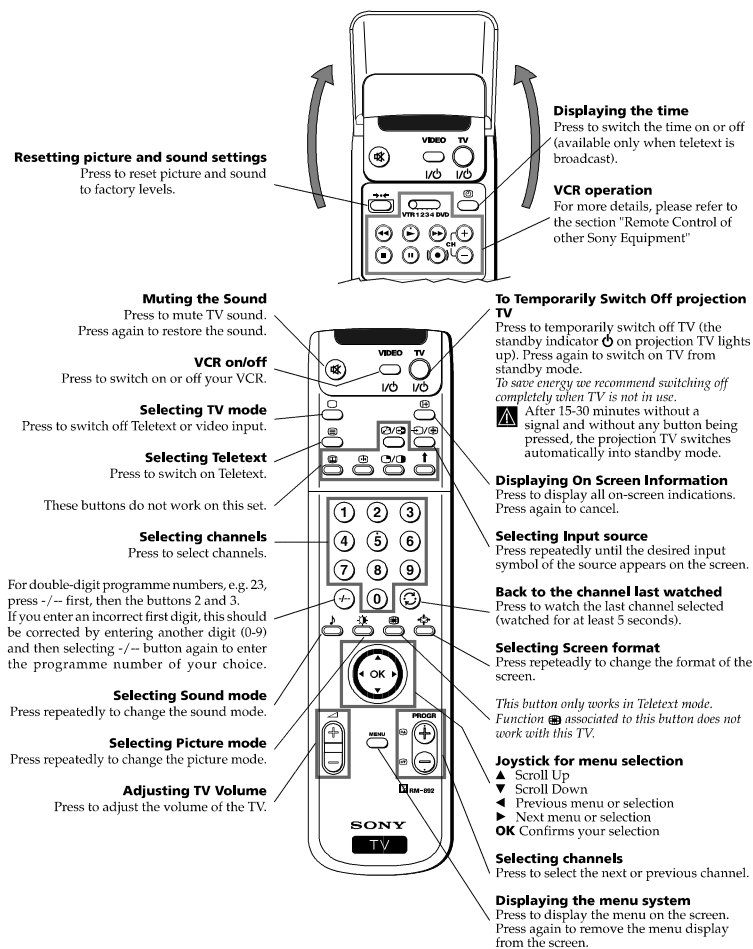
S Video Input jack
Video Input jack
Audio Inputs jacks
Headphone jack
Auto Tune button
Auto Convergence button

SECTION 2 GENERAL

KP-41PZ1B/PZ1D/PZ1E

Getting Started - Overview


Overview of Remote Control Buttons

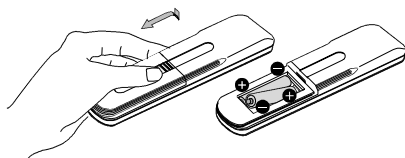


i Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.


First time Operation - Installation

Inserting Batteries into the Remote Control

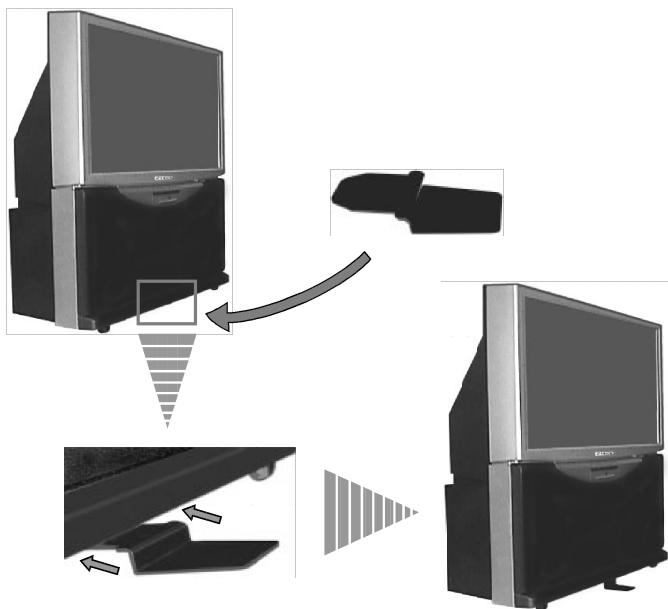
 Make sure to insert the batteries using the correct polarities.
Always remember to dispose of used batteries in an environmental friendly way.



Stabilizing the Projection TV

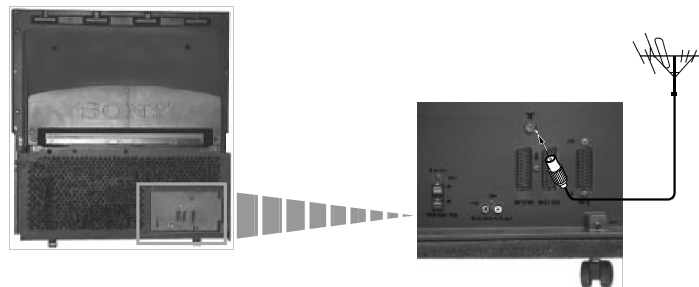
 For safety purposes, the projection TV can be stabilized with the supplied safety foot.

Fit the supplied safety foot in the support placed on the bottom of the set, as follows:



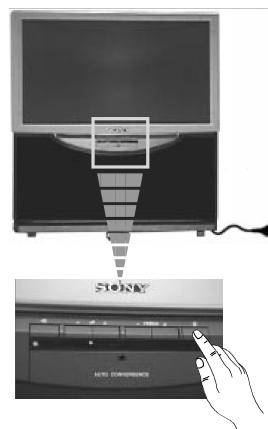
First Time Operation - Installation

Connecting the Aerial



Connect a conventional aerial to the socket marked **A** on the rear of the projection TV.

Switching on the projection TV




Connect the projection TV plug to the mains socket (220-240V AC, 50Hz).

Push in the **ON/OFF** switch on the front of the projection TV.

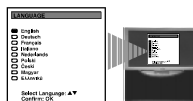
First Time Operation - Basic Presetting

Selecting Language

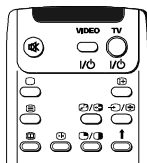
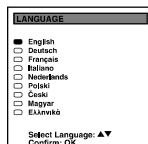
- ① Use this function to change the language of the menu screens.
The first time that you switch on your projection TV, the LANGUAGE menu appears automatically.
However, if you need to change the language menu afterwards, select the menu Language in the  (PRESET) menu and proceed in the same way as described below.



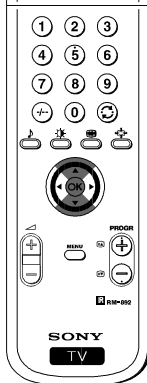
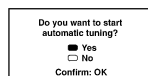
- 1 Press the **on/off** button on your projection TV set to switch on your TV. The first time you press the **on/off** button on your TV set, the language menu displays automatically on the TV screen.



- 2 Push the joystick on the remote control to **▼** or **▲** to select the language, then press **OK** to confirm your selection.




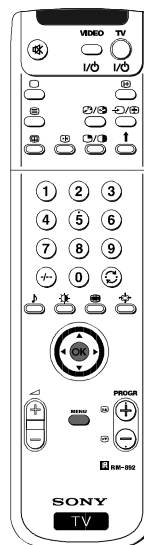
- ☺ The Auto Tuning menu appears on the projection TV screen in the selected language.



First Time Operation - Basic Presetting

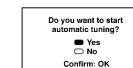
Automatically Tuning the TV using the Remote Control

- ① You need to tune the set to receive channels (TV Broadcast). By following the instructions below, this projection TV automatically searches and stores all available channels for you.
After having selected the language, a new menu appears automatically on the projection TV screen asking you to automatically tune the TV. However, if you need to change or repeat the tuning afterwards (e.g. when you move house), select the menu Auto Programme in the  (PRESET) menu and proceed in the same way as described below or, please refer to the section "Automatically Tuning the TV" of this instruction manual.

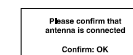


- 1 Press the **OK** button on the remote control to select **YES**.

A new menu appears automatically on the screen asking you to check that the antenna is connected.

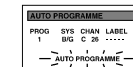


- 2 Confirm that the antenna is connected and then press the **OK** button.

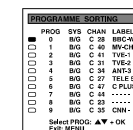


The automatic tuning starts and the message "AUTO PROGRAMME" flashes on the screen.

- ⚠ This procedure could take some minutes. Please, be patient and do not press any button.



- ☺ When the automatic tuning is finished, the Programme Sorting menu appears on the screen.




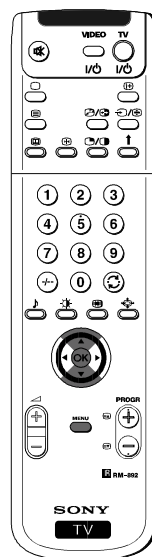
- Notes:**
- To stop the automatic tuning, press the **MENU** button.
 - If you stop the automatic tuning by pressing the **MENU** button, the Programme Sorting menu does not appear automatically on the screen.



First Time Operation - Basic Presetting


Changing the Programme Order of the TV channels

- ① After all available channels (TV Broadcast) are captioned and stored, a new menu appears automatically on the screen to change the order in which the channels appear on the screen. However, if you wish to rearrange the order of the channels afterwards, select the menu Programme Sorting in the  (PRESET) menu and proceed in the same way as described in the b) section of this chapter.



a) If you do not wish to change the channel order:

- 1 Press the **MENU** button on the remote control to exit and return to the normal TV screen.

 Your projection TV is now ready for use.

b) If you wish to change the channel order:

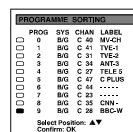
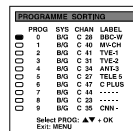
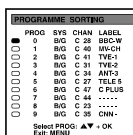
- 1 Push the joystick on the remote control to **▼** or **▲** to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press **OK**.

① The selected channel now moves to its new programme position and the other channels move accordingly.

- 3 Repeat steps 1 and 2 if you wish to change the order of the other channels.

- 4 Press the **MENU** button to exit and return to the normal TV screen.

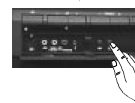
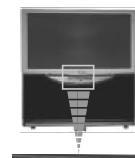
 Your projection TV is now ready for use.



Advanced Operation - Advanced Presetting

Adjusting Colour Registration (Convergence)


- ① Due to the earth's magnetism, the picture might become undefined and you could see different colours on the outlines of the images. In that case, proceed as follows:



Auto converge the Red, Green, and Blue Lines

- 1 Press the flap on the front of the projection TV by pressing on the \pm mark to reveal the front control panel.

- 2 Press **CON** button on the projection TV.

 The Auto Convergence function works for about 30 seconds. When the white cross disappears from the screen, your projection TV is ready for use.


Notes:

The Auto Convergence function does not work:

- when no signal is input.
- when the input signal is weak.
- when the screen is exposed to spotlights or direct sunlight.
- when you watch the teletext broadcast.

If you wish a more accurate convergence adjustment

- 1 Press the **MENU** button on the remote control to display the menu on the screen.

- 2 Push the joystick to **▼** to select the symbol , then push to **►** to enter to the PRESET menu.

- 3 Push the joystick to **▼** or **▲** to select **Convergence**, then push to **►**.

- 4 Push the joystick to **▼** or **▲** to select "the line" (vertical and horizontal lines in red and blue) you want to adjust.

- \pm : red vertical line (left/right adjustment)
- \pm : red horizontal line (up/down adjustment)
- \pm : blue vertical line (left/right adjustment)
- \pm : blue horizontal line (up/down adjustment)

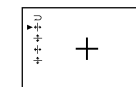
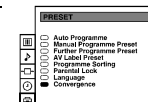
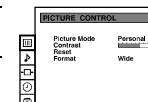
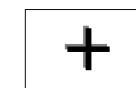
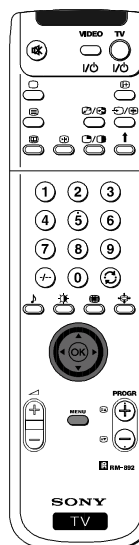
Then press the **OK** button.

- 5 Push the joystick repeatedly to **▼**, **▲**, **◀** or **▶** to converge the selected line with the green line in the centre, then press **OK** to confirm.

- 6 Repeat steps 4 and 5 to adjust the other lines, until all the lines have overlapped to form a white cross.

- 7 Press the **MENU** button to exit and return to the normal TV screen.

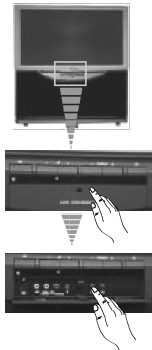
 Your projection TV is ready for use.



Advanced Operation - Advanced Presetting

Automatically Tuning the TV

- 1 Besides the explanation in the section "Automatically Tuning the TV using the Remote Control", by following the instructions below, this projection TV also searches and stores automatically all available channels using just one button of the projection TV set and one button of the remote control.



- 1 Press the flap on the front of the projection TV by pressing on the mark to reveal the front control panel.

- 2 Press and hold in the button on the TV set for some seconds, until a menu appears automatically on the screen asking you to check that antenna is connected.

Please confirm that antenna is connected
Confirm: OK

- 3 Confirm that the antenna is connected and then press the OK button on the remote control.

Please confirm that antenna is connected
Confirm: OK

The automatic tuning starts and the message "AUTO PROGRAMME" flashes on the screen.

⚠ This procedure could take some minutes. Please, be patient and do not press any button.

👉 When the automatic tuning procedure is complete, the menu disappears from the screen and your projection TV is now ready for use.

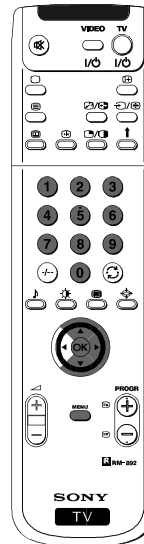
Note: To stop the automatic tuning, press the MENU button on the remote control.



Advanced Operation - Advanced Presetting

Manually Tuning the TV

- 1 Use this function to preset channels or a video input source one by one to the programme order of your choice.



- 1 Press the MENU button on the remote control to display the menu on the screen.

- 2 Push the joystick to ▼ to select the symbol, then push to ► to enter to the PRESET menu.

- 3 Push the joystick to ▼ or ▲ to select Manual Programme Preset, then push to ►.

- 4 Push the joystick to ▼ or ▲ to select on which programme number you want to preset a channel, then push to ►.

- 5 Push the joystick to ▼ or ▲ to select the TV Broadcast system (B/G for western european countries, D/K for eastern european countries) or a video input source (AV1, AV2...), then push to ►.

- 6 Push the joystick to ▼ or ▲ to select the channel tuning, "C" for terrestrial channels or "S" for cable channels, then push to ►.

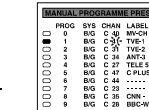
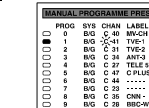
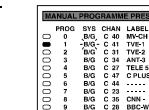
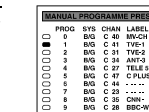
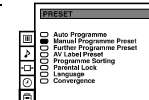
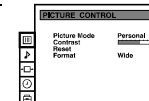
- 7 Press the number buttons to enter the channel number of the TV Broadcast or push the joystick to ▲ or ▼ to search for the next available channel.
If you do not wish to store this channel, push the joystick to ▲ or ▼ to continue searching for the desired channel.

- 8 If this is the desired channel you wish to store, press the OK button.

- 9 Repeat steps 4 to 8 if you wish to store more channels.

- 10 Press the MENU button to exit and return to the normal TV screen.

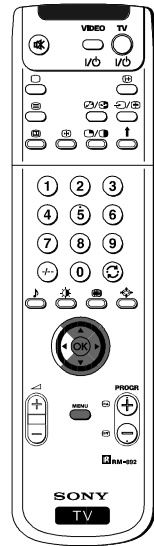
👉 Your projection TV is now ready for use.




Advanced Operation - Advanced Presetting

Using the "Further Programme Preset" function

- ① With this feature you can:
- Even normally the automatic fine tuning (AFT) is operating, however you can manually fine-tune the TV to obtain a better picture reception if the picture is distorted or
 - preset the AV3 output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.



1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the  symbol, then push to ► to enter to the PRESET menu.

3 Push the joystick to ▼ or ▲ to select **Further Programme Preset**, then push to ►.


4 Push the joystick to ▼ or ▲ to select the relevant programme number, then push to ► repeatedly to select:

- AFT or
- DECODER.


The selected item changes colour.

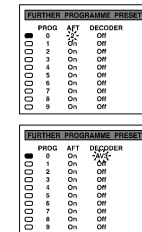
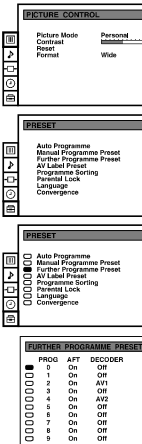
5 a) **AFT**
Push the joystick to ▼ or ▲ to fine tune the channel frequency over a range of -15 to +15, then press the OK button to confirm. Repeat steps 4 and 5a) if you wish to fine tune other channels.

b) **DECODER**
Push the joystick to ▼ or ▲ to select AV3 and press the OK button to confirm.

① The picture from the decoder connected to the Euro AV 3  on the back of the projection TV will appear on this programme number. Repeat steps 4 and 5b) to preset the AV3 output for other programme positions.

6 Press the MENU button to exit and return to the normal TV screen.

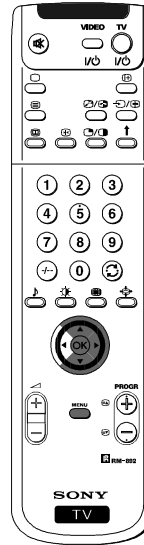
 Your projection TV is now ready for use.




Advanced Operation - Advanced Presetting

Locking Programmes

- ① This feature enables you to prevent undesirable broadcasts appearing on the screen. We suggest you use this function to prevent children from watching programmes you consider unsuitable.





1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the  symbol, then push to ► to enter to the PRESET menu.



3 Push the joystick to ▼ or ▲ to select **Parental Lock**, then push to ►.

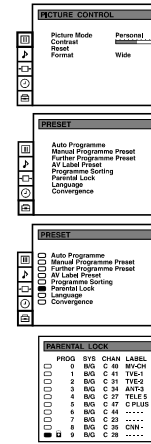
4 Push the joystick to ▼ or ▲ to select the programme number with the channel you wish to block, then press the OK button.

① The  symbol appears before the programme position to indicate this programme is now blocked. To unblock the programme, press the OK button again. The  symbol disappears.

5 Repeat step 4 if you wish to block other channels.

6 Press the MENU button to exit and return to the normal TV screen.

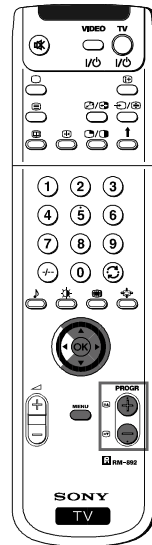
 When you select a blocked programme the screen appears in black, with  symbol.



Advanced Operation - Advanced Presetting

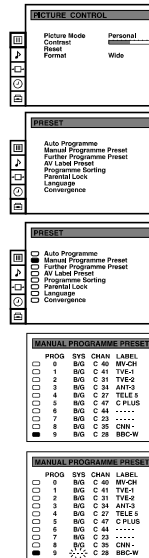
Skipping Programme positions

- ① You can programme this projection TV to skip any unwanted programme numbers when they are selected with the PROGR +/- buttons. To cancel this function afterwards, proceed in the same way as described below by selecting the appropriate TV system (B/G or D/K) instead of “- - -” in step 5.



- Press the MENU button on the remote control to display the menu on the screen.
- Push the joystick to ▼ to select the symbol, then push to ► to enter to the PRESET menu.
- Push the joystick to ▼ or ▲ to select Manual Programme Preset, then push to ►.
- Push the joystick to ▼ or ▲ to select the programme position you want to skip, then push to ► to enter to the SYS column.
- Push the joystick to ▼ to select “- - -”, then press the OK button to store.
- Repeat steps 4 and 5 to skip other unused programme positions.
- Press the MENU button to exit and return to the normal TV screen.

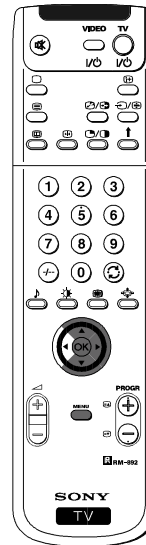
👉 When changing channels (TV Broadcasts) with the PROGR +/- buttons, the skipped programme positions do not appear. You can, however, still select them using the number buttons.



Advanced Operation - Advanced Presetting

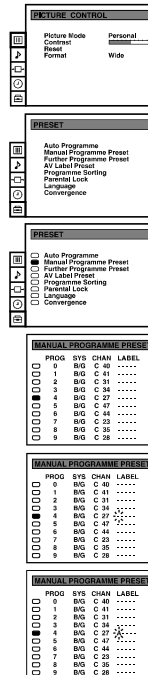
Labeling a channel

- ① Names for channels (TV Broadcasts) are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers). Using this function, you can easily identify which channel (TV Broadcasts) or video source you are watching.



- Press the MENU button on the remote control to display the menu on the screen.
- Push the joystick to ▼ to select the symbol, then push to ► to enter to the PRESET menu.
- Push the joystick to ▼ or ▲ to select Manual Programme Preset, then push to ►.
- Push the joystick to ▼ or ▲ to select the programme number with the channel you wish to name.
- Push the joystick to ► repeatedly until the first element of the LABEL column is highlighted.
- Push the joystick to ▼ or ▲ to select a letter or number (select “~” for a blank), then push to ► to confirm this character. Select the other four characters in the same way.
- After selecting all the characters, press the OK button.
- Repeat steps 4 to 7 if you wish to label other channels.
- Press the MENU button to exit and return to the normal TV screen.

👉 When you select a named channel, the name appears for a few seconds on the screen.



Advanced Operation - Advanced TV Operation

Adjusting the Picture

① Although the picture is adjusted at the factory, you can modify it to suit your own taste.



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to **▶** to enter to the **PICTURE CONTROL** menu.

3 Push the joystick to **▼** or **▲** to select the item you wish to change, then push to **▶**. Refer to the table below to choose the item and for the effect of each control:

Picture Mode ▶ Picture Mode▶ Personal (for individual settings)
 ▶ Movie (for films)
 ▶ Live (for live broadcast programmes)

▼ **Brightness*** ◀ Darker ▶ Brighter

▼ **Colour*** ◀ Less ▶ More

▼ **Sharpness*** ◀ Softer ▶ Sharper

▼ **Hue**** ◀ Greenish ▶ Reddish

Contrast ◀ Less ▶ More

Reset [Reset] Resets picture to the factory preset levels.

Format (for details refer to the section "Changing the Screen Mode")

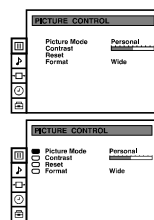
* Can be only altered if Personal Mode is selected.

** Only available for NTSC colour signal (e.g: USA video tapes).

4 Push the joystick to **◀** or **▶** to alter the selected item, then press the **OK** button to store the new adjustment.

5 Repeat steps 3 and 4 to alter the other items.

6 Press the **MENU** button to exit and return to the normal TV screen.

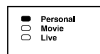


Changing the Picture Mode Quickly

① You can quickly change the Picture Mode without entering the Picture Control menu screen.

1 Press the **Picture Mode** button on the remote control to directly access the Picture Mode.

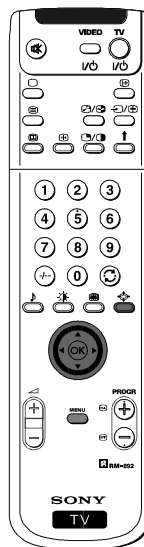
2 Push the joystick to **▼** or **▲** to select your desired picture mode (**Personal**, **Movie** or **Live**), then press the **OK** button to remove the display from the screen.



Advanced Operation - Advanced TV Operation

Changing the screen mode

① Using this Screen Mode feature you can change the aspect ratio of the screen.



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to **▶** button to enter to the **PICTURE CONTROL** menu.

3 Push the joystick to **▼** to select **Format**, then push to **▶**.

4 Push the joystick to **▼** or **▲** to select **Format**, **Scroll** or **Auto 16:9**.

5 **Format**
 Push the joystick to **▶** to enter to the menu, then push to **◀** or **▶** repeatedly to select one of the following modes:

- **Smart:** imitation of wide screen effect (16:9) for 4:3 broadcasts.
- **4:3:** conventional 4:3 picture.
- **Zoom:** imitation of wide screen effect (16:9) for movies broadcast in cinematic format.
- **Wide:** for 16:9 broadcasts.

Press the **OK** button to store the chosen mode.

6 **Scroll**
 ① You can use Scroll to move the screen up- or downwards in order to see the cut-off parts (eg to read subtitles). This function only works if you selected Zoom mode or Smart mode in step 5.

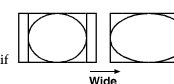
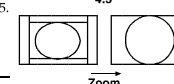
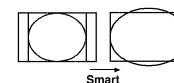
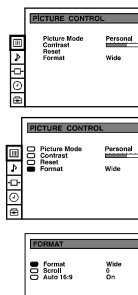
Push the joystick to **▶** to enter to the menu, then push to **◀** or **▶** to adjust the screen position over a range of -5 to +5. Press the **OK** button to store.

7 **Auto 16:9**
 Push the joystick to **▶** to enter to the menu, then push to **◀** or **▶** to select:

On: if you wish the TV set to switch automatically to wide format if a 16:9 broadcast is detected or
Off: for normal mode.

Press the **OK** button to store.

8 Press the **MENU** button to exit and return to the normal TV screen.



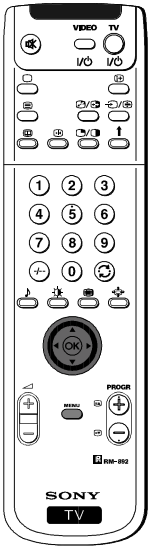
Changing the Format Screen Quickly

① You can quickly change the format screen without entering the Picture Control menu screen.

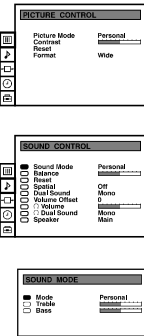
1 Press the **Format** button on the remote control repeatedly to select your desired format screen mode (**Smart**, **4:3**, **Zoom** or **Wide**).

Adjusting the Sound

Although the sound is adjusted at the factory, you can modify it to suit your own taste.



- 1 Press the MENU button on the remote control to display the menu on the screen.
- 2 Push the joystick to ▼ to select the symbol, then push to ► to enter to the SOUND CONTROL menu.
- 3 Push the joystick to ▼ or ▲ to select the item you wish to change, then push to ►.



- Sound Mode** ► **Mode** ► Personal (for individual settings)
► Rock
► Jazz
► Pop
- ▼ **Treble*** ◀ Less ► More
▼ **Bass*** ◀ Less ► More
- Balance** ◀ Less ► More
- Reset** ◻ Resets picture to the factory preset levels.
- Spatial** ► On: volume level of the channels will stay the same.
► Off: volume level changes according to the broadcast signal.
- Dual Sound** • For a stereo broadcast:
► Mono
► Stereo
• For a bilingual broadcast:
► Mono (for mono channel if available)
► A (for channel 1)
► B (for channel 2)
- Volume Offset** ◀-12 ►+12
The channel volume level can be adjusted over a range of -12 to +12.
- Headphones:**
◻ **Volume** ◀ Less ► More
- ◻ **Dual Sound** • For a stereo broadcast:
► Mono
► Stereo
• For a bilingual broadcast:
► Mono (for mono channel if available)
► A (for channel 1)
► B (for channel 2)
- Speaker** ► **Main:** sound from projection TV set.
► **Centre in:** sound from external amplifier

* Can be only altered if "Personal" mode is selected.



- 4 Push the joystick to ◀ or ► to alter the selected item, then press the OK button to store the new adjustment.
- 5 Repeat steps 3 and 4 to alter the other items.
- 6 Press the MENU button to exit and return to the normal TV screen.


Changing Sound Mode Quickly


- 1** You can quickly change Sound mode without entering the Sound Control menu screen.
- 1** Press the button on the remote control to directly access to the Sound Mode.
- 2** Push the joystick to ▼ or ▲ to select your desired sound mode (Personal, Rock, Jazz or Pop), then press the OK button to remove the display from the screen.




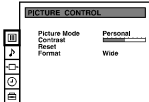
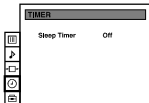

Advanced Operation - Advanced TV Operation


Using the Sleep Timer


-  You can select a time period for the TV to switch itself automatically into the standby mode.



- 1** Press the MENU button on the remote control to display the menu on the screen.
- 2** Push the joystick to ▼ button to select the  symbol, then push to ► to enter to the TIMER menu.
- 3** Push the joystick to ◀ or ▶ repeatedly to set the time period delay
Off ▶ 0:30 ▶ 1:00..... 4:00 hours
- 4** Press the OK button.
- 5** Press the MENU button to exit and return to the normal TV screen.







 One minute before the projection TV switches into standby mode, the time remaining is displayed on the screen automatically.



- Notes:**
- When watching the TV, press the  button to display the time remaining.
 - To return to normal operation from standby mode, press the TV I/O button.

Teletext

Viewing Teletext





-  Teletext is an information service transmitted by most TV stations.
-  Make sure to use a TV channel with a strong signal, otherwise teletext errors may occur.

Selecting Teletext

- 1** Select the TV channel which carries the teletext service you wish to view.
- 2** Press the  button on the remote control to switch on the teletext.
- 3** Input three digits for the page number, using the numbered buttons on the remote control. (if you have made a mistake, type in any three digits and then, re-enter the correct page number).
- 4** Press the  button to switch off teletext.




Using other Teletext functions

TO	PRESS THE BUTTON
Access the next or preceding page	 for next page or  for the preceding page
Superimpose teletext on to the TV	Press  again to cancel teletext mode.
Freeze a teletext page	Press  again to cancel the freeze.



Using Fastext

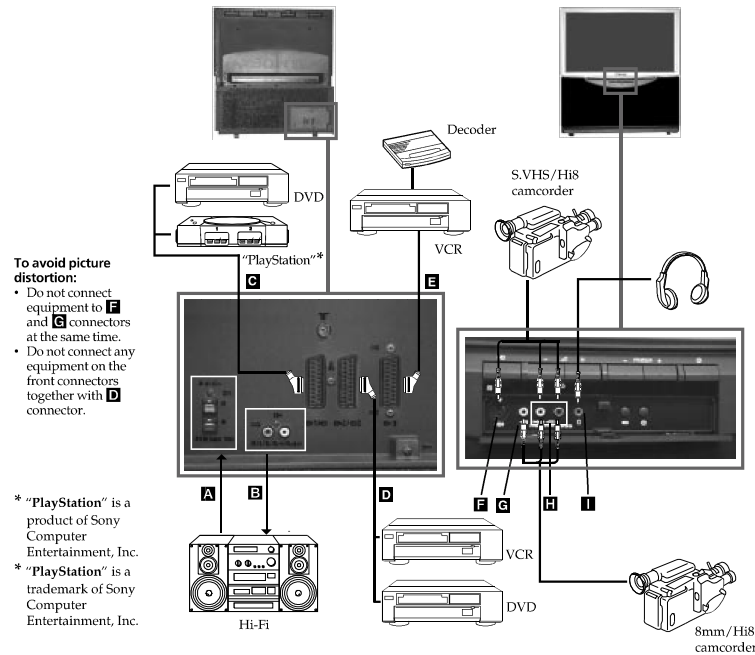
-  Fastext lets you access pages with one button stroke.

When Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) on the remote control to access the corresponding page.

Optional Connections

Connecting Optional Equipment

① Using the following instructions, you can connect a wide range of optional equipment to your projection TV.



Acceptable input signal	Available output signal
A Centre speaker input Set "Speaker" on the SOUND CONTROL menu to "Centre in".	No outputs
B No inputs	Audio signal
C Audio/video and RGB signal	Video/audio from TV tuner
D Audio/video and S video signal	Video/audio from selected source
E Audio/video signal	Video/audio from selected source (the same output source as the 2 connector)
F S Video signal	No output
G Video signal	No output
H Audio signal	No output
I No input	Audio signal from headphones

Optional Connections

Using Optional Equipment

Additional Information when connecting equipment

Connecting a VCR

We recommend you connect your VCR to the **D** or **E** socket using a scart lead. If you do not have a scart lead, use the "Manually Tuning the TV" section of this instruction manual to tune in the VCR signal to TV programme number "0".

If your video supports Smartlink please refer the "Smartlink" section of this instruction manual.

Connecting to External Audio Equipment

1 To listen to the audio of your projection TV on the Hi-Fi equipment:

Plug in your Hi-Fi equipment to the **B** sockets on the rear of the projection TV if you wish to amplify the audio output from the TV.

The output level from **B** sockets can be varied by adjusting the volume of the headphones. Refer to the "Adjusting the sound" section of this instruction manual to adjust the volume of the headphones.

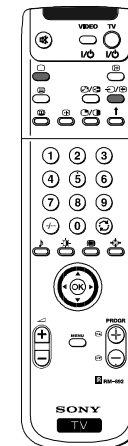
2 To listen to the Hi-Fi equipment on the projection TV speakers:

Plug in your Hi-Fi equipment to the **A** socket on the rear of the projection TV if you wish to listen to the audio output from your Hi-Fi on the projection TV speaker. If you have a Dolby amplifier, connect the centre output from your amplifier to the **A** socket to use the projection TV as a centre speaker. Refer to the "Adjusting the Sound" section of this instructions manual and set the option "Speaker" to "Centre in".

For mono equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select the **2** input signal using the instructions on this page below. Finally, refer to the "Adjusting the sound" section of this manual and select "A" on the sound menu screen.

Select and View the Input Signal



1 Connect your equipment to the designated projection TV socket, as it is indicated on the previous page.

2 Press the **2** button repeatedly on your remote control until the correct input symbol appears on the screen.

Symbol Input signals

- 1** Audio/video input signal through the Euro AV connector **C**
- 4** RGB input signal through the Euro AV connector **C**
- 2** Audio/Video input signal through the Euro AV connector **D** or the phono sockets **H** and **F**.
- 2** Audio/S Video input signal through the Euro AV connector **D** or the sockets **H** and **F**.
- 3** Audio/Video input signal through the Euro AV connector **E**

3 Switch on the connected equipment.

4 To return to the normal TV picture, press the **TV** button on the remote control.

Optional Connections

Smartlink

i Smartlink is a direct link between your projection TV set and a VCR.

For Smartlink you need:

- A VCR which supports Smartlink, NextView Link, Easy Link or Megalogic.

i Megalogic is a trademark of Grundig Corporation.
EasyLink is a trademark of Philips Corporation.

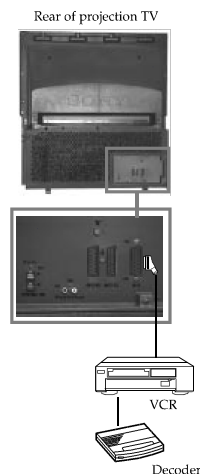
- A fully-wired 21 pin SCART cable to connect your VCR to the Euro AV connector ②-3 on the rear of the Projection TV.

The features of Smartlink are:

- Tuning information such as the channel overview are downloaded from the projection TV set to the VCR.
- Direct projection TV recording: While watching TV you need to press just one button on the VCR to record this programme.
- Projection TV in standby mode: Press the "Play ►" button on your VCR to switch the TV automatically on.

A If you have connected a decoder to a VCR which supports Smartlink feature, select the menu Further Programme Preset in the **PRESET** menu and select **DECODER AV3** to each codified channel. For more details, please refer to the section "Using the Further Programme Preset function" of this instruction manual.

A For more information on Smartlink, please refer to the Instruction Manual of your VCR.



Remote Control of other Sony Equipment

i Using the buttons underneath the cover of the remote control you can control other Sony equipment.

- 1 Open the cover of the Remote Control.
- 2 Set the selector VTR 1234 DVD according to the equipment you want to control:
VTR 1 Beta VCR
VTR 2 8 mm VCR
VTR 3 VHS VCR
VTR 4 Digital Video (DCR-VX 1000/9000 E, VHR-1000)
DVD Digital Video Disk
- 3 Use the buttons underneath the cover of the on the remote control to operate the equipment.

- If your video equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on the TV Remote Control.
- If the equipment does not have a certain function, the corresponding button on the remote control does not work.



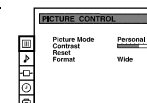
Optional Connections

Selecting the output source for the Euro AV connectors

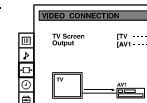
i Using this function you can record on your VCR any signal coming from an external equipment connected to the Euro AV connectors ②-2/-③ 2 or ③-3 placed on the rear of the projection TV.
In that case you have to select the output source as described below (if your VCR support Smartlink, this procedure is not necessary).



1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to **▼** to select the **TV** symbol, then push to **►** button to enter to the **VIDEO CONNECTION** menu screen.



3 Push the joystick to **▼** or **▲** button to highlight:

TV Screen (input source for the TV screen) or

Output (output source available for ②-2/-③ 2 and ③-3 Euro AV connectors).

Push the joystick to **►** to confirm.

4 Push the joystick to **◀** or **▶** repeatedly to select the desired source:

TV Screen TV, AV1, RGB, AV2, YC2 or AV3

Output TV, AV1, AV2, YC2, AV3 or AUTO

Then press the **OK** button to confirm.

A If you select "AUTO", the output signal will be always the same one that is displayed on the screen.

A If you have connected a decoder, please remember to set back the Output to "TV" for a correct unscrambling.

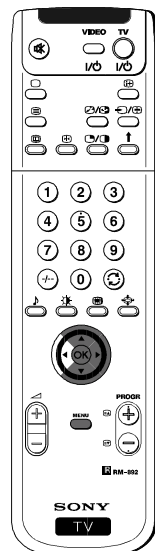
5 Press the **MENU** button to exit and return to the normal TV screen.

i The selected signal is available for your optional equipment connected to the appropriate Euro AV connector.

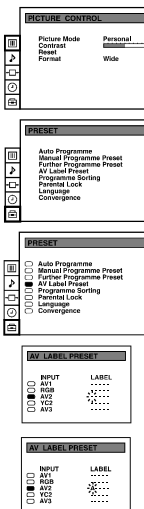
Optional Connections

Using the AV Label Preset feature

- i** This function enables you to designate a name to the optional equipment you have connected to the sockets of this projection TV. This name can be up to 5 characters (letters or numbers).



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to **▼** to select the symbol, then push to **▶** to enter to the **PRESET** menu screen.
- 3 Push the joystick to **▼** or **▲** to select **AV Label Preset**, then push to **▶**.
- 4 Push the joystick to **▼** or **▲** to select the input source you wish to name (eg AV2), then push to **▶** to highlight the first element of the **LABEL** column.
- 5 Push the joystick to **▼** or **▲** to select a letter or number (select **—** for a blank) then push to **▶** to confirm this character. Select the other four characters in the same way.
- 6 After selecting all the characters, press the **OK** button.
- 7 Repeat steps 4 to 6 if you wish to label other input sources.
- 8 Press the **MENU** button to exit and return to the normal TV screen.

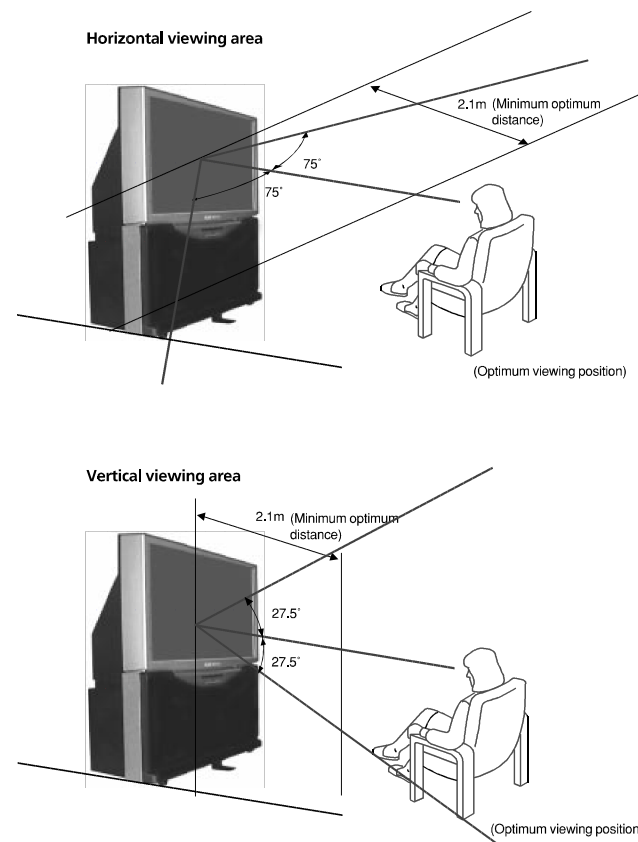


i Whenever the equipment with the labeled input is selected for use, the name appears for a few seconds on the screen.

Additional Information

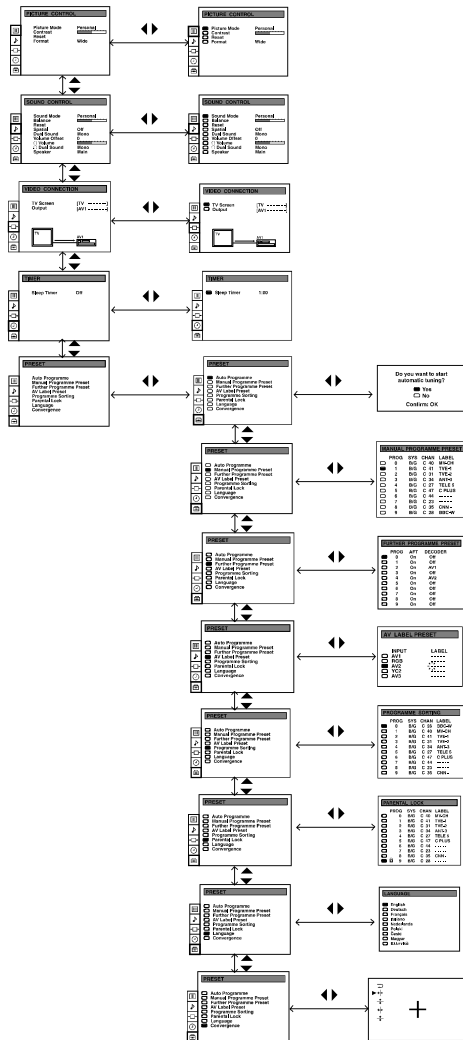
Optimum Viewing Area

- i** For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.



Additional Information

On Screen display Menus Guide



(For different adjustments, please refer to the section "Adjusting the Picture")

(For different adjustments, please refer to the section "Adjusting the Sound")

(For more details, please refer to the section "Selecting the output source for the Euro AV connectors")

(For more details, please refer to the section "Using the Sleep Timer")

(For more details, please refer to the section "Automatically Tuning the TV using the Remote Control")

(For more details, please refer to the section "Manually Tuning the TV")

(For more details, please refer to the section "Using the Further Programme Preset function")

(For more details, please refer to the section "Using the AV Label Preset function")

(For more details, please refer to the section "Changing the Programme Order of the TV channels")

(For more details, please refer to the section "Locking Programmes")

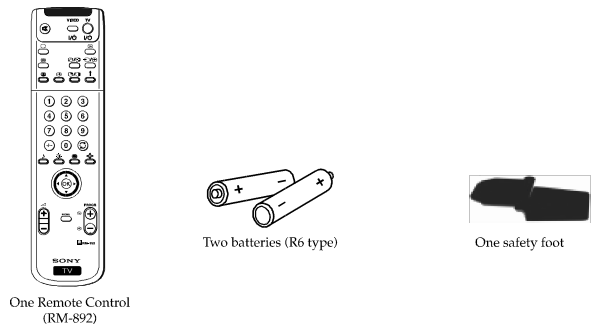
(For more details, please refer to the section "Selecting Language")

(For more details, please refer to the section "Adjusting Colour Registration (Convergence)")

KP-41DS1U

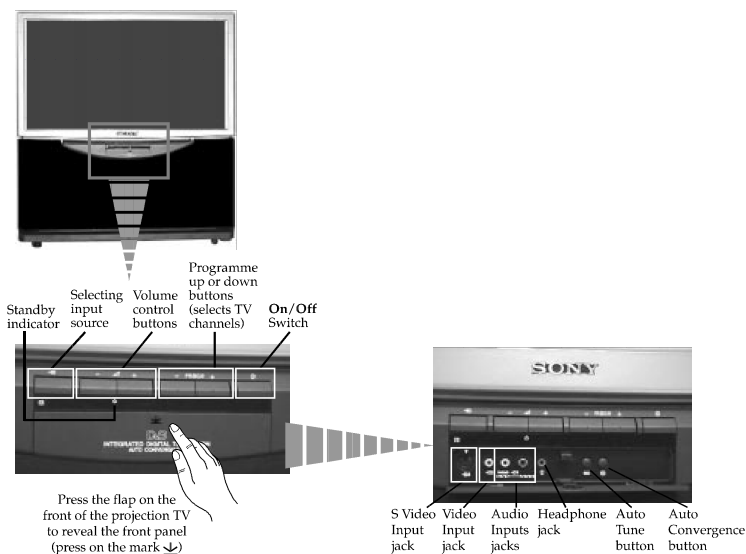
Getting Started - Overview

Checking the Accessories Supplied



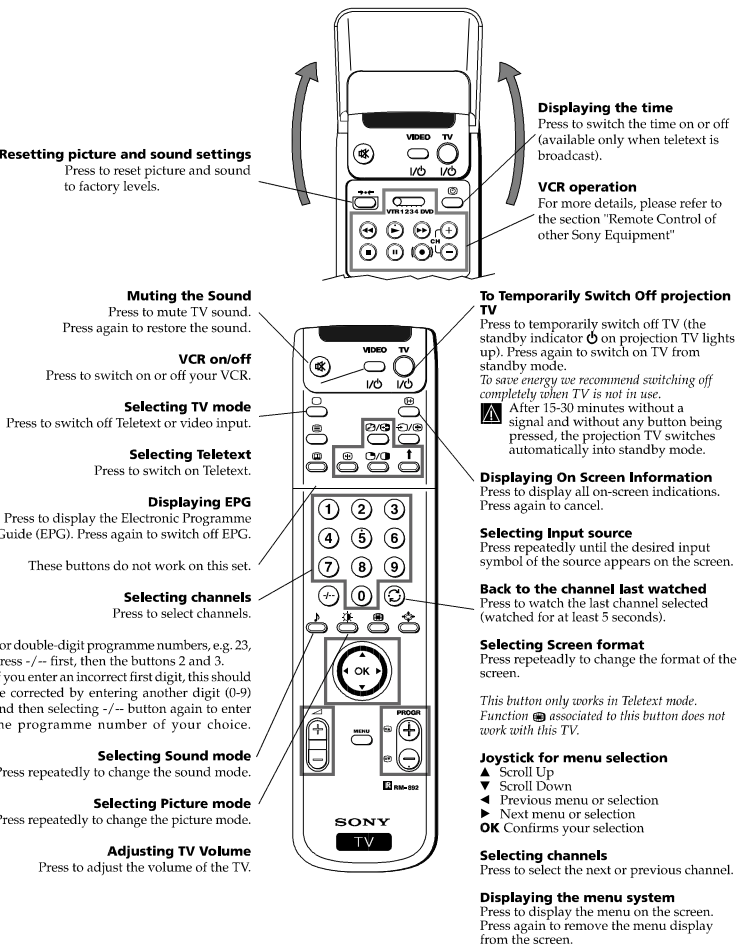
Overview of Projection TV Buttons

— 24 —



Getting Started - Overview


Overview of Remote Control Buttons

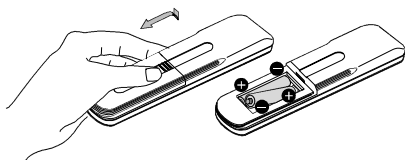


① Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.


First time Operation - Installation

Inserting Batteries into the Remote Control

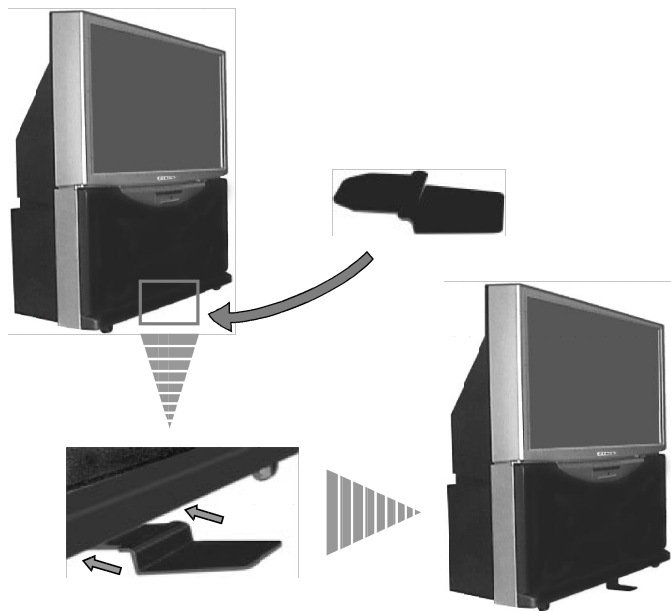
 Make sure to insert the batteries using the correct polarities.
Always remember to dispose of used batteries in an environmental friendly way.



Stabilizing the Projection TV

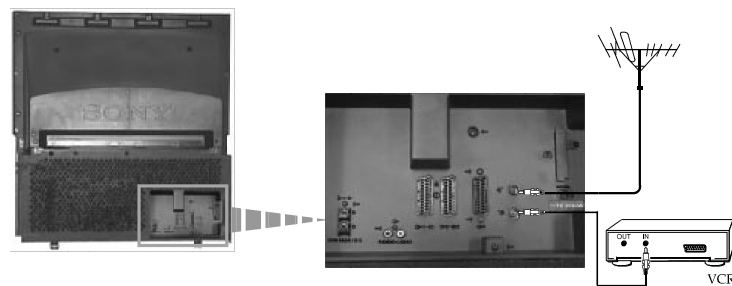
 For safety purposes, the projection TV can be stabilized with the supplied safety foot.


Fit the supplied safety foot in the support placed on the bottom of the set, as follows:



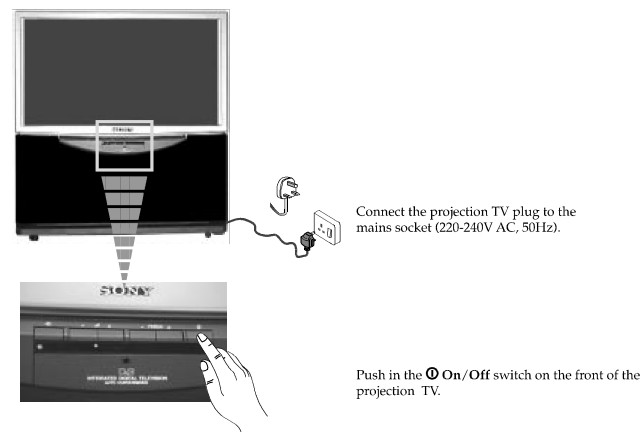
First Time Operation - Installation

Connecting the Aerial




Connect a conventional aerial to the socket marked  on the rear of the projection TV.

Switching on the projection TV




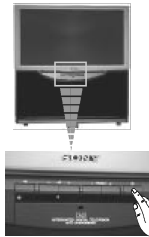
Connect the projection TV plug to the mains socket (220-240V AC, 50Hz).

Push in the  On/Off switch on the front of the projection TV.

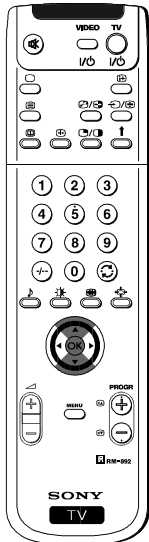
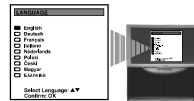
First Time Operation - Basic Presetting

Selecting Language

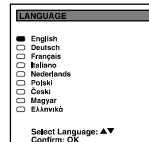
- 1** Use this function to change the language of the menu screens.
The first time that you switch on your projection TV, the LANGUAGE menu appears automatically. However, if you need to change the language menu afterwards, select the menu Language in the  (PRESET) menu and proceed in the same way as described below.



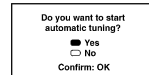
- 1** Press the **on/off** button on your projection TV set to switch on your TV. The first time you press the **on/off** button on your TV set, the language menu displays automatically on the TV screen.



- 2** Push the joystick on the remote control to **▼** or **▲** to select the language, then press **OK** to confirm your selection.




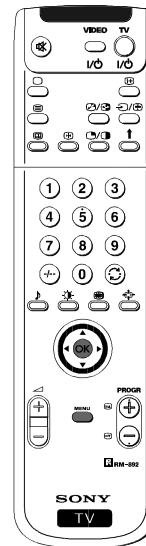
- The Auto Tuning menu appears on the projection TV screen in the selected language.**



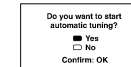
First Time Operation - Basic Presetting

Automatically Tuning the TV using the Remote Control

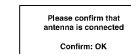
- 1** You need to tune the set to receive channels (TV Broadcast). By following the instructions below, this projection TV automatically searches and stores all available channels for you.
After having selected the language, a new menu appears automatically on the projection TV screen asking you to automatically tune the TV. However, if you need to change or repeat the tuning afterwards (e.g. when you move house), select the menu Auto Programme in the  (PRESET) menu and proceed in the same way as described below or, please refer to the section "Automatically Tuning the TV" of this instruction manual.



- 1** Press the **OK** button on the remote control to select **YES**.
A new menu appears automatically on the screen asking you to check that the antenna is connected.

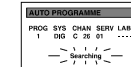


- 2** Confirm that the antenna is connected and then press the **OK** button.

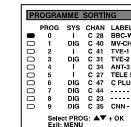


The automatic tuning starts and the message "Searching" flashes on the screen.

- ⚠** This procedure could take some minutes. Please, be patient and do not press any button.



- When the automatic tuning is finished, the Programme Sorting menu appears on the screen.**




- 1** If any digital channels are found during the autotune procedure, no analogue channels will be stored, no analogue channels will be stored. If you wish to tune in any analogue channels, please refer to the section "Manually Tuning the TV" of this instruction manual.

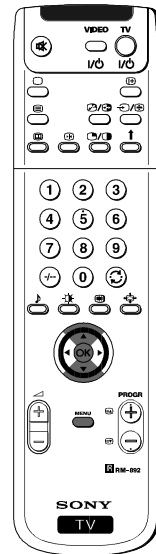
- Notes:**
- To stop the automatic tuning, press the **MENU** button.
 - If you stop the automatic tuning by pressing the **MENU** button, the Programme Sorting menu does not appear automatically on the screen.



First Time Operation - Basic Presetting


Changing the Programme Order of the TV channels

- ① After all available channels (TV Broadcast) are captioned and stored, a new menu appears automatically on the screen to change the order in which the channels appear on the screen. However, if you wish to rearrange the order of the channels afterwards, select the menu Programme Sorting in the  (PRESET) menu and proceed in the same way as described in the b) section of this chapter.



a) If you do not wish to change the channel order:

- 1 Press the MENU button on the remote control to exit and return to the normal TV screen.

 Your projection TV is now ready for use.


b) If you wish to change the channel order:

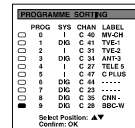
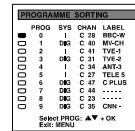
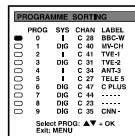
- 1 Push the joystick on the remote control to ▼ or ▲ to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press OK.

- ① The selected channel now moves to its new programme position and the other channels move accordingly.

- 3 Repeat steps 1 and 2 if you wish to change the order of the other channels.

- 4 Press the MENU button to exit and return to the normal TV screen.

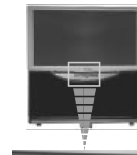
 Your projection TV is now ready for use.





Advanced Operation - Advanced Presetting


Adjusting Colour Registration (Convergence)

- ① Due to the earth's magnetism, the picture might become undefined and you could see different colours on the outlines of the images. In that case, proceed as follows:



Auto converge the Red, Green, and Blue Lines


- 1 Press the flap on the front of the projection TV by pressing on the  mark to reveal the front control panel.
- 2 Press  button on the projection TV.

 The Auto Convergence function works for about 30 seconds. When the white cross disappears from the screen, your projection TV is ready for use.

Notes:

- The Auto Convergence function does not work:
- when no signal is input.
 - when the input signal is weak.
 - when the screen is exposed to spotlights or direct sunlight.
 - when you watch the teletext broadcast.


If you wish a more accurate convergence adjustment

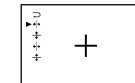
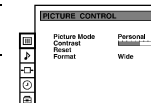
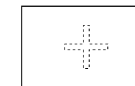
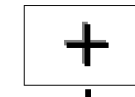
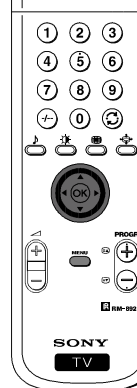
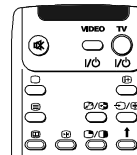
- 1 Press the MENU button on the remote control to display the menu on the screen.
- 2 Push the joystick to ▼ to select the symbol , then push to ► to enter to the PRESET menu.
- 3 Push the joystick to ▼ or ▲ to select Convergence, then push to ►.
- 4 Push the joystick to ▼ or ▲ to select "the line" (vertical and horizontal lines in red and blue) you want to adjust.
 - ⬆ : red vertical line (left/right adjustment)
 - ⬇ : red horizontal line (up/down adjustment)
 - ⬆ : blue vertical line (left/right adjustment)
 - ⬇ : blue horizontal line (up/down adjustment)

Then press the OK button.

- 5 Push the joystick repeatedly to ▼, ▲, ⬆ or ⬇ to converge the selected line with the green line in the centre, then press OK to confirm.
- 6 Repeat steps 4 and 5 to adjust the other lines, until all the lines have overlapped to form a white cross.

- 7 Press the MENU button to exit and return to the normal TV screen.

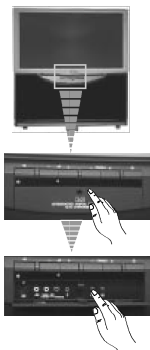
 Your projection TV is ready for use.



Advanced Operation - Advanced Presetting

Automatically Tuning the TV

- ① Besides the explanation in the section "Automatically Tuning the TV using the Remote Control", by following the instructions below, this projection TV also searches and stores automatically all available channels using just one button of the projection TV set and one button of the remote control.



- 1 Press the flap on the front of the projection TV by pressing on the mark to reveal the front control panel.

- 2 Press and hold the button on the TV set for some seconds, until a menu appears automatically on the screen asking you to check that antenna is connected.

- 3 Confirm that the antenna is connected and then press the OK button on the remote control.

The automatic tuning starts and the message "Searching" flashes on the screen.

A This procedure could take some minutes. Please, be patient and do not press any button.

! When the automatic tuning procedure is complete, the menu disappears from the screen and your projection TV is now ready for use.

- ① If any digital channels are found during the autotune procedure, no analogue channels will be stored, no analogue channels will be stored. If you wish to tune in any analogue channels, please refer to the section "Manually Tuning the TV" of this instruction manual.

Note: To stop the automatic tuning, press the MENU button on the remote control.



Please confirm that antenna is connected
Confirm: OK

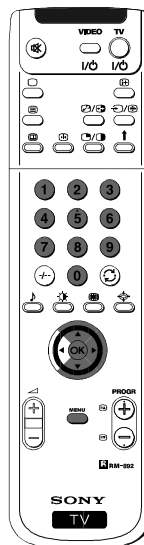
Please confirm that antenna is connected
Confirm: OK

AUTO PROGRAMME
PROG SYS CHAN SERV LABEL
1 DIG C 35 01
Searching

Advanced Operation - Advanced Presetting

Manually Tuning the TV

- ① Use this function to preset channels or a video input source one by one to the programme order of your choice.



- 1 Press the MENU button on the remote control to display the menu on the screen.

- 2 Push the joystick to ▼ to select the symbol, then push to ► to enter to the PRESET menu.

- 3 Push the joystick to ▼ or ▲ to select Manual Programme Preset, then push to ►.

- 4 Push the joystick to ▼ or ▲ to select on which programme number you want to preset a channel, then push to ►.

- 5 Push the joystick to ▼ or ▲ to select the TV Broadcast system (I for analogue channels or DIG for digital channels) or a video input source (AV1, AV2...), then push to ► to highlight the number digit of CHAN column.

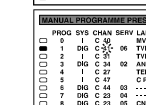
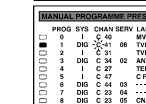
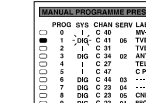
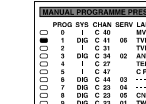
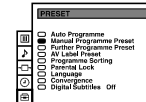
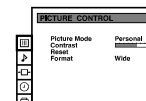
- 6 Press the number buttons to enter the channel number of the TV Broadcast or push the joystick to ▲ or ▼ to search for the next available channel.
If you do not wish to store this channel, push the joystick to ▲ or ▼ to continue searching for the desired channel.

- 7 If this is the desired channel you wish to store, press the OK button.

- 8 Repeat steps 4 to 7 if you wish to store more channels.

- 9 Press the MENU button to exit and return to the normal TV screen.

! Your projection TV is now ready for use.



Advanced Operation - Advanced Presetting


Using the "Further Programme Preset" function

① With this feature you can:

- Even normally the automatic fine tuning (AFT) is operating, however you can manually fine-tune the TV (only available on analogue channels) to obtain a better picture reception if the picture is distorted or
- preset the AV3 output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.



1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the  symbol, then push to ► to enter to the PRESET menu.

3 Push the joystick to ▼ or ▲ to select **Further Programme Preset**, then push to ►.

4 Push the joystick to ▼ or ▲ to select the relevant programme number, then push to ► repeatedly to select:

- AFT or
- DECODER.

The selected item changes colour.


① AFT will only be available on analogue channels.

5 a) AFT


Push the joystick to ▼ or ▲ to fine tune the channel frequency over a range of -15 to +15, then press the OK button to confirm. Repeat steps 4 and 5a) if you wish to fine tune other channels.

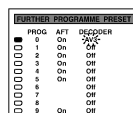
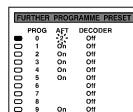
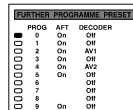
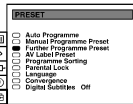
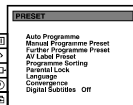
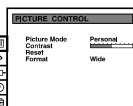
b) DECODER

Push the joystick to ▼ or ▲ to select AV3 and press the OK button to confirm.

① The picture from the decoder connected to the Euro AV 3  on the back of the projection TV will appear on this programme number. Repeat steps 4 and 5b) to preset the AV3 output for other programme positions.

6 Press the MENU button to exit and return to the normal TV screen.

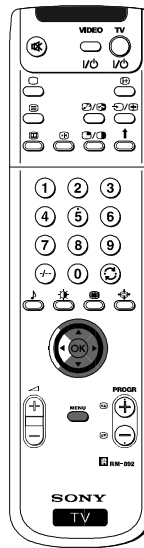
 Your projection TV is now ready for use.




Advanced Operation - Advanced Presetting

Locking Programmes

① This feature enables you to prevent undesirable broadcasts appearing on the screen. We suggest you use this function to prevent children from watching programmes you consider unsuitable.





1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the  symbol, then push to ► to enter to the PRESET menu.



3 Push the joystick to ▼ or ▲ to select **Parental Lock**, then push to ►.

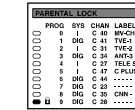
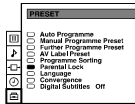
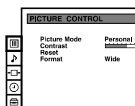
4 Push the joystick to ▼ or ▲ to select the programme number with the channel you wish to block, then press the OK button.

① The  symbol appears before the programme position to indicate this programme is now blocked. To unblock the programme, press the OK button again. The  symbol disappears.

5 Repeat step 4 if you wish to block other channels.

6 Press the MENU button to exit and return to the normal TV screen.

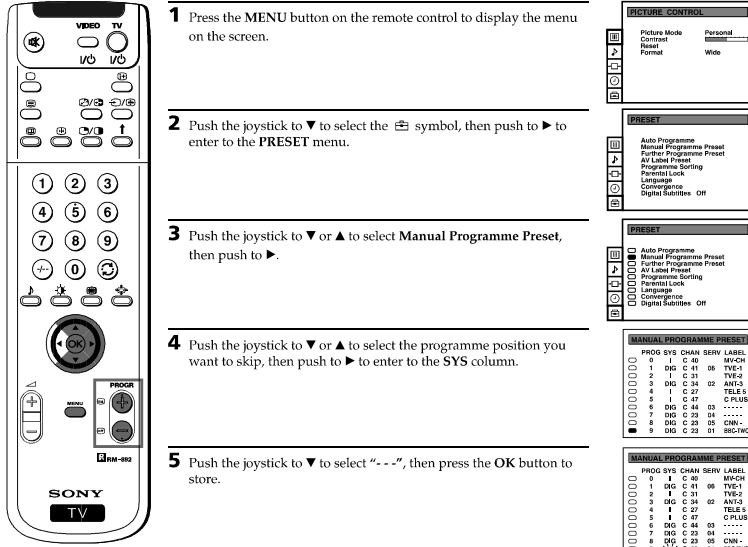
 When you select a blocked programme the screen appears in black, with  symbol.




Advanced Operation - Advanced Presetting

Skipping Programme positions

- ① You can programme this projection TV to skip any unwanted programme numbers when they are selected with the PROGR +/- buttons. To cancel this function afterwards, proceed in the same way as described below by selecting the appropriate TV system (B/G or D/K) instead of “- - -” in step 5.



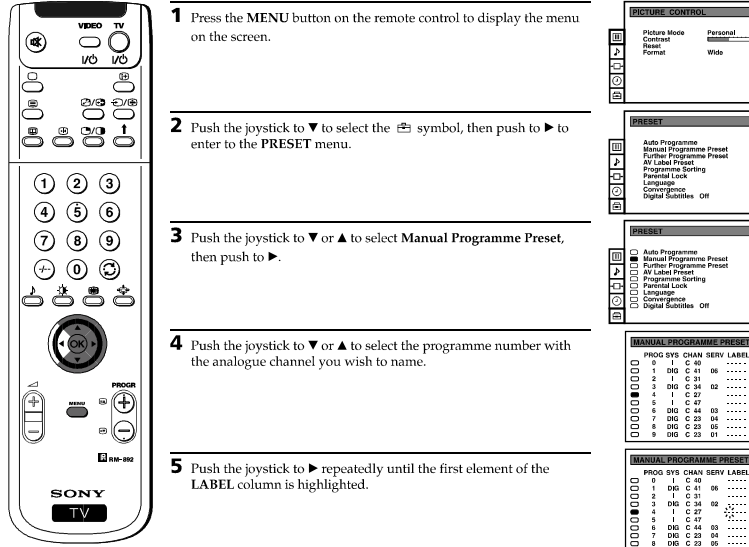
- Press the MENU button on the remote control to display the menu on the screen.
- Push the joystick to ▼ to select the  symbol, then push to ► to enter to the PRESET menu.
- Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ►.
- Push the joystick to ▼ or ▲ to select the programme position you want to skip, then push to ► to enter to the SYS column.
- Push the joystick to ▼ to select “- - -”, then press the OK button to store.
- Repeat steps 4 and 5 to skip other unused programme positions.
- Press the MENU button to exit and return to the normal TV screen.


ⓘ When changing channels (TV Broadcasts) with the PROGR +/- buttons, the skipped programme positions do not appear. You can, however, still select them using the number buttons.

Advanced Operation - Advanced Presetting

Labeling a channel (analogue channels only)

- ① Names for analogue channels (TV Broadcasts) are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers). Using this function, you can easily identify which channel (TV Broadcasts) or video source you are watching.



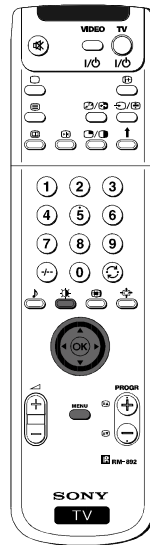
- Press the MENU button on the remote control to display the menu on the screen.
- Push the joystick to ▼ to select the  symbol, then push to ► to enter to the PRESET menu.
- Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ►.
- Push the joystick to ▼ or ▲ to select the programme number with the analogue channel you wish to name.
- Push the joystick to ► repeatedly until the first element of the LABEL column is highlighted.
- Push the joystick to ▼ or ▲ to select a letter or number (select “-” for a blank), then push to ► to confirm this character. Select the other four characters in the same way.
- After selecting all the characters, press the OK button.
- Repeat steps 4 to 7 if you wish to label other channels.
- Press the MENU button to exit and return to the normal TV screen.

ⓘ When you select a named channel, the name appears for a few seconds on the screen.

Advanced Operation - Advanced TV Operation

Adjusting the Picture

① Although the picture is adjusted at the factory, you can modify it to suit your own taste.



1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to ► to enter to the PICTURE CONTROL menu.

3 Push the joystick to ▼ or ▲ to select the item you wish to change, then push to ►.
Refer to the table below to chose the item and for the effect of each control:

Picture Mode ► Picture Mode ► Personal (for individual settings)
► Movie (for films)
► Live (for live broadcast programmes)

▼ **Brightness*** ◀ Darker ▶ Brighter
▼ **Colour*** ◀ Less ▶ More
▼ **Sharpness*** ◀ Softer ▶ Sharper
▼ **Hue**** ◀ Greenish ▶ Reddish

Contrast ◀ Less ▶ More

Reset ◀ Resets picture to the factory preset levels.

Format (for details refer to the section "Changing the Screen Mode")

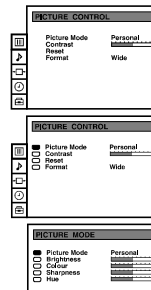
* Can be only altered if Personal Mode is selected.

** Only available for NTSC colour signal (e.g: USA video tapes).

4 Push the joystick to ◀ or ► to alter the selected item, then press the OK button to store the new adjustment.


5 Repeat steps 3 and 4 to alter the other items.

6 Press the MENU button to exit and return to the normal TV screen.

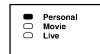


Changing the Picture Mode Quickly

① You can quickly change the Picture Mode without entering the Picture Control menu screen.

1 Press the  button on the remote control to directly access the Picture Mode.

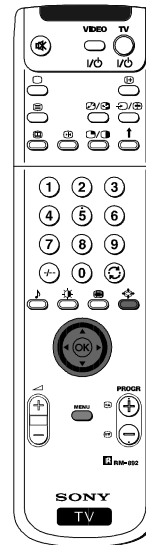
2 Push the joystick to ▼ or ▲ to select your desired picture mode (Personal, Movie or Live), then press the OK button to remove the display from the screen.



Advanced Operation - Advanced TV Operation

Changing the screen mode

① Using this Screen Mode feature you can change the aspect ratio of the screen.



1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to ► button to enter to the PICTURE CONTROL menu.

3 Push the joystick to ▼ to select Format, then push to ►.

4 Push the joystick to ▼ or ▲ to select Format, Scroll or Auto 16:9.

5 **Format**
Push the joystick to ► to enter to the menu, then push to ◀ or ► repeatedly to select one of the following modes:

- **Smart:** imitation of wide screen effect (16:9) for 4:3 broadcasts.
- **4:3:** conventional 4:3 picture.
- **Zoom:** imitation of wide screen effect (16:9) for movies broadcast in cinematic format.
- **Wide:** for 16:9 broadcasts.

Press the OK button to store the chosen mode.

6 **Scroll**

① You can use Scroll to move the screen up- or downwards in order to see the cut-off parts (eg to read subtitles). This function only works if you selected Zoom mode or Smart mode in step 5.

Push the joystick to ► to enter to the menu, then push to ◀ or ► to adjust the screen position over a range of -5 to +5. Press the OK button to store.

7 **Auto 16:9**

Push the joystick to ► to enter to the menu, then push to ◀ or ► to select:


On: if you wish the TV set to switch automatically to wide format if a 16:9 broadcast is detected or
Off: for normal mode.

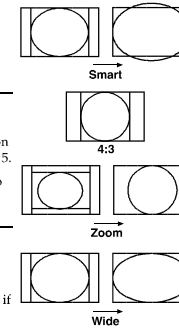
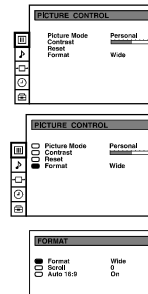
Press the OK button to store.

8 Press the MENU button to exit and return to the normal TV screen.

Changing the Format Screen Quickly

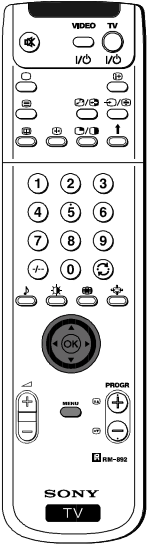
① You can quickly change the format screen without entering the Picture Control menu screen.

1 Press the  button on the remote control repeatedly to select your desired format screen mode (Smart, 4:3, Zoom or Wide).



Adjusting the Sound

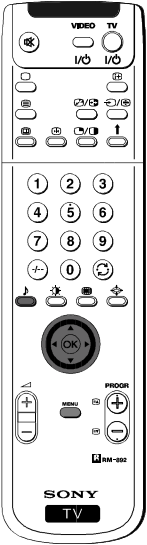
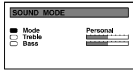
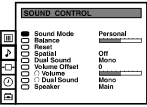
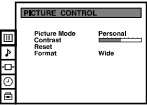
Although the sound is adjusted at the factory, you can modify it to suit your own taste.



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to **▼** to select the **♪** symbol, then push to **▶** to enter to the **SOUND CONTROL** menu.
- 3 Push the joystick to **▼** or **▲** to select the item you wish to change, then push to **▶**. Refer to the table below to choose the item and for the effect of each control.

- Sound Mode ▶ Mode**
- ▶ Personal (for individual settings)
 - ▶ Rock
 - ▶ Jazz
 - ▶ Pop
- Treble*** ◀ Less ▶ More
- Bass*** ◀ Less ▶ More
- Balance** ◀ Less ▶ More
- Reset** ◻ Resets picture to the factory preset levels.
- Spatial**
- ▶ On: volume level of the channels will stay the same.
 - ▶ Off: volume level changes according to the broadcast signal.
- Dual Sound**
- For a stereo broadcast:
 - ▶ Mono
 - ▶ Stereo
 - For a bilingual broadcast:
 - ▶ Mono (for mono channel if available)
 - ▶ A (for channel 1)
 - ▶ B (for channel 2)
- Volume Offset** ◀-12 ▶+12
The channel volume level can be adjusted over a range of -12 to +12.
- Headphones:**
- Volume** ◀ Less ▶ More
- Dual Sound**
- For a stereo broadcast:
 - ▶ Mono
 - ▶ Stereo
 - For a bilingual broadcast:
 - ▶ Mono (for mono channel if available)
 - ▶ A (for channel 1)
 - ▶ B (for channel 2)
- Speaker**
- ▶ Main: sound from projection TV set
 - ▶ Centre in: sound from external amplifier

* Can be only altered if "Personal" mode is selected.



- 4 Push the joystick to **◀** or **▶** to alter the selected item, then press the **OK** button to store the new adjustment.
- 5 Repeat steps 3 and 4 to alter the other items.
- 6 Press the **MENU** button to exit and return to the normal TV screen.

Changing Sound Mode Quickly

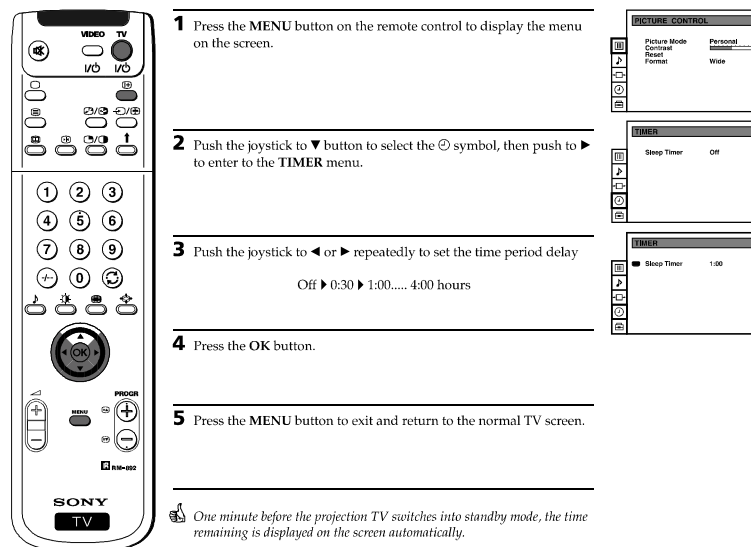
- 1 You can quickly change Sound mode without entering the Sound Control menu screen.
- 1 Press the **♪** button on the remote control to directly access to the Sound Mode.
- 2 Push the joystick to **▼** or **▲** to select your desired sound mode (**Personal**, **Rock**, **Jazz** or **Pop**), then press the **OK** button to remove the display from the screen.



Advanced Operation - Advanced TV Operation

Using the Sleep Timer

- i** You can select a time period for the TV to switch itself automatically into the standby mode.



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to **▼** button to select the **⊙** symbol, then push to **▶** to enter to the **TIMER** menu.

3 Push the joystick to **◀** or **▶** repeatedly to set the time period delay

Off ▶ 0:30 ▶ 1:00..... 4:00 hours

4 Press the **OK** button.

5 Press the **MENU** button to exit and return to the normal TV screen.

i One minute before the projection TV switches into standby mode, the time remaining is displayed on the screen automatically.

PICTURE CONTROL

Picture Mode: Personal
Contrast:
Sharp:
Format: Wide

TIMER

Sleep Timer: Off

TIMER

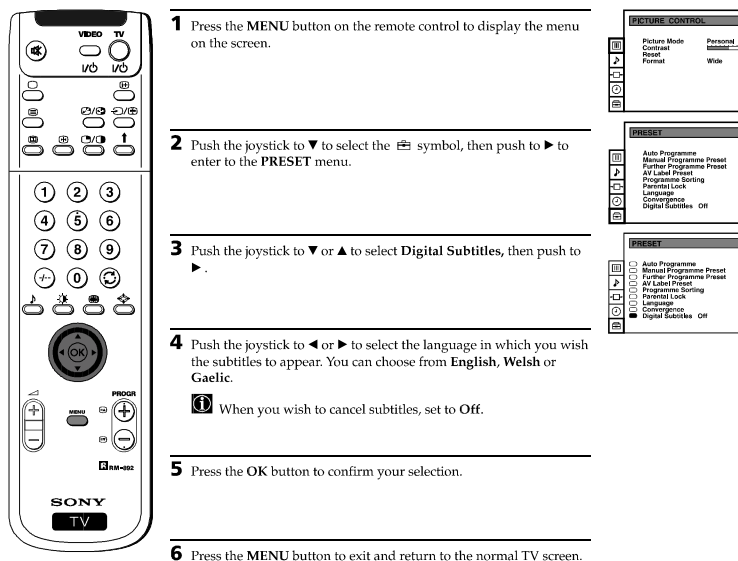
● Sleep Timer: 1:00

- Notes:**
- When watching the TV, press the **⊕** button to display the time remaining.
 - To return to normal operation from standby mode, press the **TV I/O** button.

Advanced Operation - Advanced TV Operation

Displaying subtitles for digital channels

- i** With this feature you can view subtitles (if available) on the TV screen when watching digital channels. When watching analogue channels you can view subtitles via the teletext menu.



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to **▼** to select the **⊕** symbol, then push to **▶** to enter to the **PRESET** menu.

3 Push the joystick to **▼** or **▲** to select **Digital Subtitles**, then push to **▶**.

4 Push the joystick to **◀** or **▶** to select the language in which you wish the subtitles to appear. You can choose from **English**, **Welsh** or **Gaelic**.

i When you wish to cancel subtitles, set to **Off**.

5 Press the **OK** button to confirm your selection.

6 Press the **MENU** button to exit and return to the normal TV screen.

PICTURE CONTROL

Picture Mode: Personal
Contrast:
Sharp:
Format: Wide

PRESET

Auto Programme
Manual Programme Preset
Partial Programme Preset
AV Label Preset
Programme Setting
Parental Lock
Language
ClosedCaption
Digital Subtitles: Off

PRESET

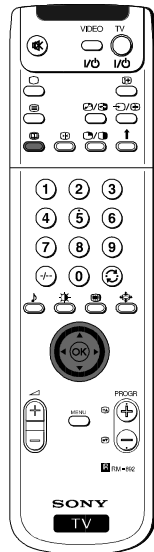
Auto Programme
Manual Programme Preset
Partial Programme Preset
AV Label Preset
Programme Setting
Parental Lock
Language
ClosedCaption
Digital Subtitles: Off

i When you select a digital channel which broadcasts subtitles, the subtitles appear on the bottom of the screen in the chosen language.

Electronic Programme Guide (EPG)

Displaying and Viewing EPG

- i** The electronic Programme Guide (EPG) is a guide which provides programme information for all digital channels supporting EPG. When looking for information you can search by theme (sports, art, etc.), date or time (e.g. broadcasts between 8 and 9 pm). When you have found a programme you can go directly to this programme, use the timer to remind you of it or preset your VCR with Smartlink.



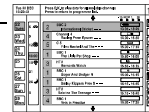
Displaying the EPG

- 1 Press the **EPG** button on the remote control to display the electronic programme guide (EPG) on the screen.

i You may see the message "EPG INFORMATION IS TEMPORARILY UNAVAILABLE" whilst waiting for the EPG to appear on screen.

- 2 Push the joystick to **▼**, **▲**, **◀** or **▶** to move the on-screen cursor around the guide.

- 3 Press the **EPG** button again to exit and return to the normal TV screen.

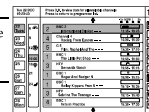


Viewing Information on the EPG

i You can alter the type of information presented on the EPG by changing data in each of the EPG columns. You can for example display information for all sports programmes being shown tomorrow from 5.00pm onward.

- 1 Press the **EPG** button on the remote control to display the EPG on the TV screen.

- 2 Push the joystick to **◀** or **▶** to highlight the **date** column, then push to **▲** or **▼** to select your chosen date.



- 3 Push the joystick to **◀** or **▶** to highlight the **time** column, then push to **▲** or **▼** to select your chosen time.

- 4 Press the **OK** button. The EPG will display programme information according to the date and time you selected.

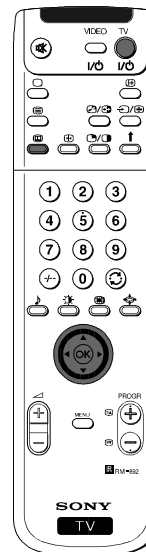
- 5 Push the joystick to **▶** to highlight **programme type** column, then push to **▲** or **▼** to select **Films**, **News**, **Lifestyle**, **Sport**, **Children Programmes**, **Entertainment** or **Education**.

- 6 Push the joystick to **◀** or **▶** to update the programme information accordingly. If you selected tomorrow's date, 17:00 and **Sport**, you should now be able to view all the sports programmes being shown tomorrow from 5.00 pm onwards.

- 7 Press the **EPG** button to exit and return to the normal TV screen.

Electronic Programme Guide (EPG)

Recording Programmes using EPG



- 1 Press the **EPG** button on the remote control to display the programme guide on the screen.

- 2 Push the joystick to **◀** or **▶** to highlight the **programme** column, then push to **▲** or **▼** to select your desired programme.

- 3 Press the **OK** button. If the programme is currently being broadcast, it will be displayed on your TV. If not, the **TIMER** menu will be displayed on the TV screen.

- 4 At the bottom of the timer page you can see the symbols **Return** (back to EPG), **Event Rec** (to record a programme) or **Wake up** (to set the programme to switch on automatically).

- 5 Push the joystick to **◀** or **▶** to select one of these symbols then press the **OK** button to confirm your selection. The EPG appears on screen with the relevant icon appearing next to the programme you selected in step 2.

- 6 If you wish to cancel a recording, select the relevant programme and press the **OK** button. A menu is displayed on screen requesting you to select **Return** if you wish to continue to record the programme or **Delete** if you wish to cancel the recording request.

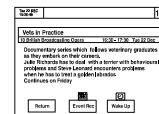
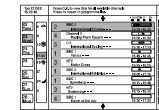
- 7 After making your selection, press the **OK** button to confirm. The record icon disappears from the EPG if **Delete** was selected in step 6.

- 8 If you have finished viewing programmes on your TV, press the **TV I/O** button before the timer recording starts to leave your projection TV in standby mode for the timer settings to be activated. If, however, you wish to continue watching other programmes after setting the timer, you can do so by changing programmes in the normal way. If you are watching another programme when the timer is due to start, a display will appear on screen advising you that, if you change channels, you automatically cancel the recording.

- 9 If you do not wish to cancel or view the recording, press the **TV I/O** button whilst one of the displays are still on screen to leave your projection TV in standby mode. The standby indicator on the front of the set will flash to show that the timer record operation is active. If, however, you choose to change programmes, you automatically cancel the recording.

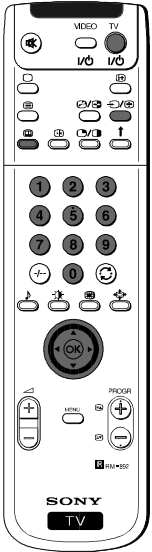
Notes:

- If your video recorder (VCR) is not Smartlink-compatible, you will need to set your VCR to switch on and off automatically after setting the timer on the EPG.
- If you want to change channel once a digital programme has started recording, select the channel by using the remote control buttons as normal. The message "STOP RECORDING" will be displayed on screen. Either do nothing to allow the recording to continue or select the required channel once more while the message is still displayed on screen. The recording will then be cancelled.

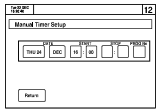
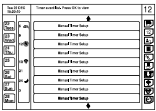
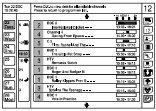


Electronic Programme Guide (EPG)

Setting The Manual Timer



- 1 Press the button on the remote control to display the EPG on the screen.
- 2 Push the joystick to or to highlight the **programme type** column, then push to to select the timer symbol .
- 3 Press the **OK** button to display a screen of 9 programme slots, each one indicating that it is either free for programming, or that it has a programme already stored in it.
- 4 Push the joystick to to enter the **programme** column.
- 5 Push the joystick to or to select a free row then press the **OK** button to display the **Set Timer** screen. This screen asks you to confirm the date, programme number, start time and end time.
- 6 Push the joystick to to select the date area then press the number buttons on the remote control to enter the date.
- 7 Push the joystick to to confirm the date then push then to or to select the month.
- 8 Push the joystick to to confirm the month and to enter the start time.
- 9 Press the number buttons to enter the time when you want the timer to switch on, preferably several minutes before you set your video recorder to start recording. If you wish to switch on at 8.25 pm, enter 2025.
- 10 Push the joystick to to confirm the entry and to enter the switch-off time.
- 11 Press the number buttons to enter the time you want the timer to switch off, preferably after your video has stopped recording. Again, you should enter 4 digits using the 24 hours format.
- 12 Push the joystick to to confirm the entry and to enter the programme number.
- 13 Press the **OK** button to save the settings, then select **Return** and press **OK** button to return to the **Manual Timer Setup** menu.
- 14 Select another available slot if you wish to record a further programme. Otherwise, push the joystick to to enter the **programme type** column, then press the **OK** button to return to the EPG.
- 15 If you have finished viewing programmes on your projection TV, press the **TV I/O** button before the timer recording starts to leave your projection TV in standby mode for the timer settings to be activated. If, however, you wish to continue watching other programmes after setting a timer, you can do so by changing programmes in the normal way. If you are watching another programme when the timer is due to start a display will appear on screen advising you that, if you change channels now, you automatically cancel the recording.
- 16 If you do not wish to cancel or view the recording, press the **TV I/O** button whilst the display is still on screen to leave your projection TV in standby mode. The standby indicator on the front of the set will flash to show that the timer record operation is active. If, however, you choose to change programmes, you automatically cancel the recording.



Teletext

Viewing Teletext (analogue channels only)

- Teletext is an information service transmitted by most TV stations.
- Make sure to use a TV channel with a strong signal, otherwise teletext errors may occur.



Selecting Teletext

- 1 Select the TV channel which carries the teletext service you wish to view.
- 2 Press the button on the remote control to switch on the teletext.
- 3 Input three digits for the page number, using the numbered buttons on the remote control. (if you have made a mistake, type in any three digits and then, re-enter the correct page number).
- 4 Press the button to switch off teletext.



Using other Teletext functions

TO	PRESS THE BUTTON
Access the next or preceding page	for next page or for the preceding page
Superimpose teletext on to the TV	Press again to cancel teletext mode.
Freeze a teletext page	Press again to cancel the freeze.



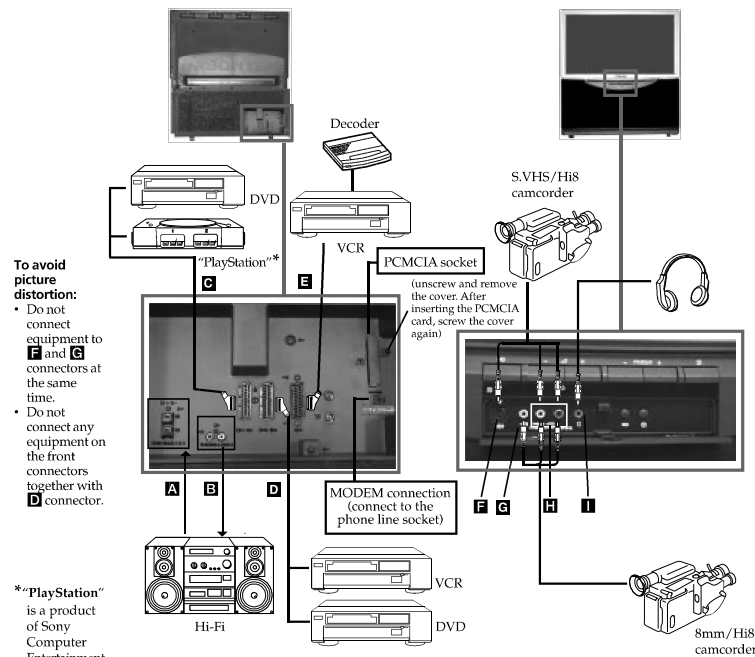
Using Fastext

- Fastext lets you access pages with one button stroke.
- When Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) on the remote control to access the corresponding page.

Optional Connections

Connecting Optional Equipment

① Using the following instructions, you can connect a wide range of optional equipment to your projection TV.



To avoid picture distortion:

- Do not connect equipment to **F** and **G** connectors at the same time.
- Do not connect any equipment on the front connectors together with **D** connector.

*"PlayStation" is a product of Sony Computer Entertainment, Inc.

*"PlayStation" is a trademark of Sony Computer Entertainment, Inc.

Acceptable input signal	Available output signal
A Centre speaker input Set "Speaker" on the SOUND CONTROL menu to "Centre in".	No outputs
B No inputs	Audio signal
C Audio/video and RGB signal	Video/audio from TV tuner
D Audio/video and S video signal	Video/audio from selected source
E Audio/video signal	Video/audio from selected source (the same output source as the G -2/ G -3 2 connector)
F S Video signal	No output
G Video signal	No output
H Audio signal	No output
I No input	Audio signal from headphones

Optional Connections

Using Optional Equipment

Additional Information when connecting equipment

Connecting a VCR

We recommend you connect your VCR to the **D** or **E** socket using a scart lead. If you do not have a scart lead, use the "Manually Tuning the TV" section of this instruction manual to tune in the VCR signal to TV programme number "0".

If your video supports Smartlink please refer the "Smartlink" section of this instruction manual.

Connecting to External Audio Equipment

1 To listen to the audio of your projection TV on the Hi-Fi equipment:

Plug in your Hi-Fi equipment to the **B** sockets on the rear of the projection TV if you wish to amplify the audio output from the TV.

The output level from **B** sockets can be varied by adjusting the volume of the headphones. Refer to the "Adjusting the sound" section of this instruction manual to adjust the volume of the headphones.

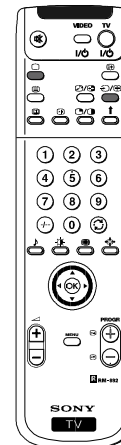
2 To listen to the Hi-Fi equipment on the projection TV speakers:

Plug in your Hi-Fi equipment to the **A** socket on the rear of the projection TV if you wish to listen to the audio output from your Hi-Fi on the projection TV speaker. If you have a Dolby amplifier, connect the centre output from your amplifier to the **A** socket to use the projection TV as a centre speaker. Refer to the "Adjusting the Sound" section of this instructions manual and set the option "Speaker" to "Centre in".

For mono equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select the **G**-2 input signal using the instructions on this page below. Finally, refer to the "Adjusting the sound" section of this manual and select "A" on the sound menu screen.

Select and View the Input Signal



- Connect your equipment to the designated projection TV socket, as it is indicated on the previous page.
- Press the **G** button repeatedly on your remote control until the correct input symbol appears on the screen.

Symbol	Input signals
G -1	Audio/video input signal through the Euro AV connector C
G -2	RGB input signal through the Euro AV connector C
G -3	Audio/Video input signal through the Euro AV connector D or the phono sockets H and G
G -4	Audio/S Video input signal through the Euro AV connector D or the sockets H and F
G -5	Audio/Video input signal through the Euro AV connector E
- Switch on the connected equipment.
- To return to the normal TV picture, press the **TV** button on the remote control.

Optional Connections

Smartlink

i Smartlink is a direct link between your projection TV set and a VCR.

For Smartlink you need:

- A VCR which supports Smartlink, NextView Link, Easy Link or Megalogic.

i Megalogic is a trademark of Grundig Corporation.
EasyLink is a trademark of Philips Corporation.

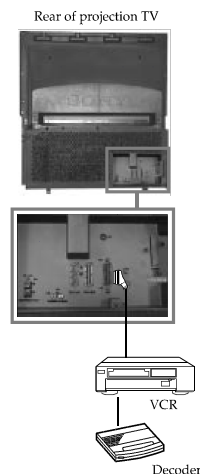
- A fully-wired 21 pin SCART cable to connect your VCR to the Euro AV connector ② on the rear of the Projection TV.

The features of Smartlink are:

- Tuning information such as the channel overview are downloaded from the projection TV set to the VCR.
- Direct projection TV recording; While watching TV you need to press just one button on the VCR to record this programme.
- Projection TV in standby mode: Press the "Play ►" button on your VCR to switch the TV automatically on.

A If you have connected a decoder to a VCR which supports Smartlink feature, select the menu Further Programme Preset in the **PRESET** menu and select **DECODER AV3** to each codified channel. For more details, please refer to the section "Using the Further Programme Preset function" of this instruction manual.

A For more information on Smartlink, please refer to the Instruction Manual of your VCR.

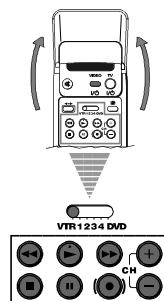


Remote Control of other Sony Equipment

i Using the buttons underneath the cover of the remote control you can control other Sony equipment.

- 1 Open the cover of the Remote Control.
- 2 Set the selector VTR 1234 DVD according to the equipment you want to control:
VTR 1 Beta VCR
VTR 2 8 mm VCR
VTR 3 VHS VCR
VTR 4 Digital Video (DCR-VX 1000/9000 E, VHR-1000)
DVD Digital Video Disk
- 3 Use the buttons underneath the cover of the on the remote control to operate the equipment.

- If your video equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on the TV Remote Control.
- If the equipment does not have a certain function, the corresponding button on the remote control does not work.



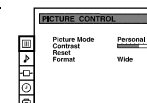
Optional Connections

Selecting the output source for the Euro AV connectors

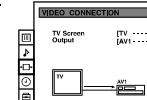
i Using this function you can record on your VCR any signal coming from an external equipment connected to the Euro AV connectors ② or ③ placed on the rear of the projection TV.
In that case you have to select the output source as described below (if your VCR support Smartlink, this procedure is not necessary).



1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to **▼** to select the **TV** symbol, then push to **►** button to enter to the **VIDEO CONNECTION** menu screen.



3 Push the joystick to **▼** or **▲** button to highlight:

TV Screen (input source for the TV screen) or

Output (output source available for ② and ③ Euro AV connectors).

Push the joystick to **►** to confirm.

4 Push the joystick to **◀** or **▶** repeatedly to select the desired source:

TV Screen TV, AV1, RGB, AV2, YC2 or AV3

Output TV, AV1, AV2, YC2, AV3 or AUTO

Then press the **OK** button to confirm.

A If you select "AUTO", the output signal will be always the same one that is displayed on the screen.

A If you have connected a decoder, please remember to set back the Output to "TV" for a correct unscrambling.

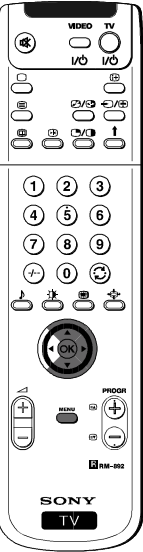
5 Press the **MENU** button to exit and return to the normal TV screen.


i The selected signal is available for your optional equipment connected to the appropriate Euro AV connector.

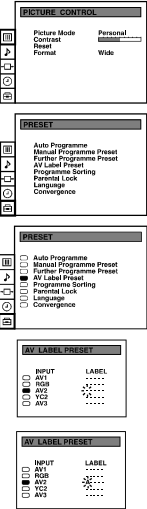
Optional Connections

Using the AV Label Preset feature

This function enables you to designate a name to the optional equipment you have connected to the sockets of this projection TV. This name can be up to 5 characters (letters or numbers).



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to **▼** to select the  symbol, then push to **▶** to enter to the **PRESET** menu screen.
- 3 Push the joystick to **▼** or **▲** to select **AV Label Preset**, then push to **▶**.
- 4 Push the joystick to **▼** or **▲** to select the input source you wish to name (eg AV2), then push to **▶** to highlight the first element of the **LABEL** column.
- 5 Push the joystick to **▼** or **▲** to select a letter or number (select **-** for a blank) then push to **▶** to confirm this character. Select the other four characters in the same way.
- 6 After selecting all the characters, press the **OK** button.
- 7 Repeat steps 4 to 6 if you wish to label other input sources.
- 8 Press the **MENU** button to exit and return to the normal TV screen.

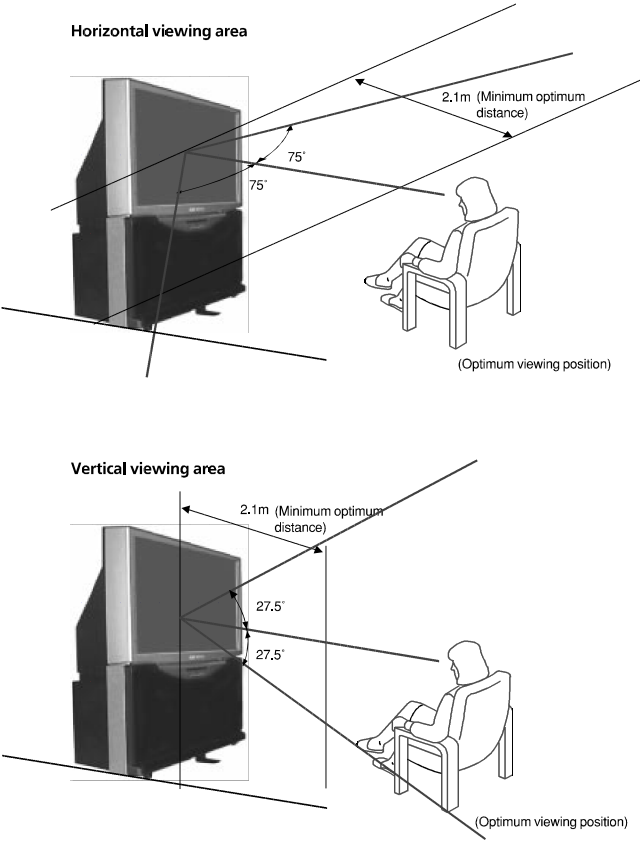


Whenever the equipment with the labeled input is selected for use, the name appears for a few seconds on the screen.

Additional Information

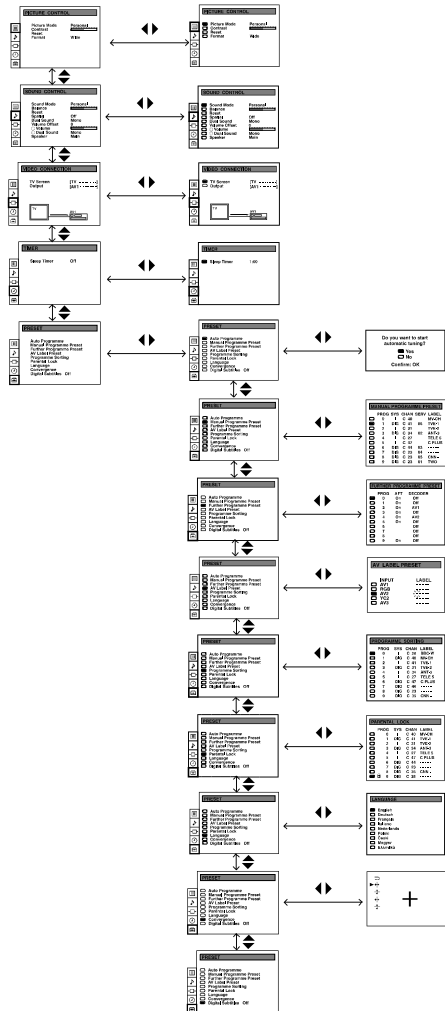
Optimum Viewing Area

For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.



Additional Information

On Screen display Menus Guide



(For different adjustments, please refer to the section "Adjusting the Picture")

(For different adjustments, please refer to the section "Adjusting the Sound")

(For more details, please refer to the section "Selecting the output source for the Euro AV connectors")

(For more details, please refer to the section "Using the Sleep Timer")

(For more details, please refer to the section "Automatically Tuning the TV using the Remote Control")

(For more details, please refer to the section "Manually Tuning the TV")

(For more details, please refer to the section "Using the Further Programme Preset function")

(For more details, please refer to the section "Using the AV Label Preset function")

(For more details, please refer to the section "Changing the Programme Order of the TV channels")

(For more details, please refer to the section "Locking Programmes")

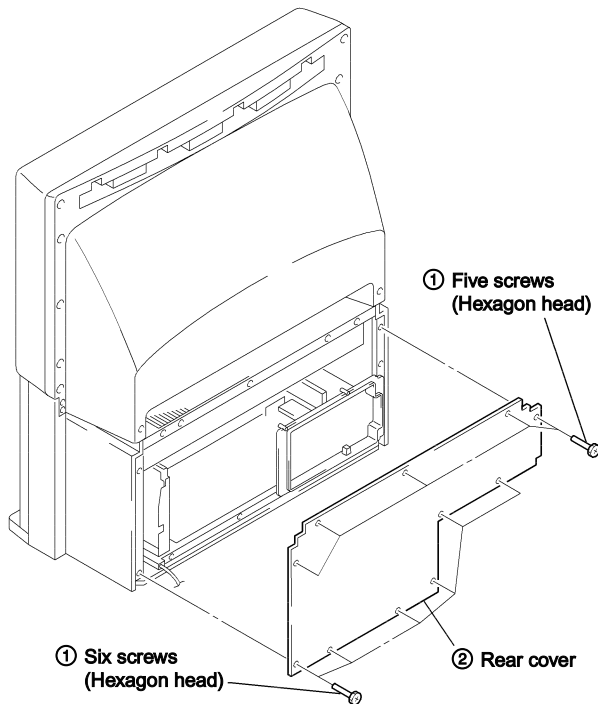
(For more details, please refer to the section "Selecting Language")

(For more details, please refer to the section "Adjusting Colour Registration (Convergence)")

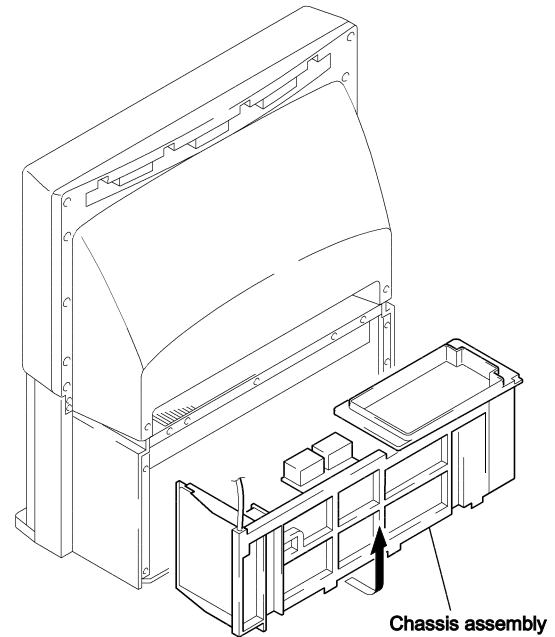
(For more details, please refer to the section "Displaying subtitles for digital channels")

SECTION 3 DISASSEMBLY

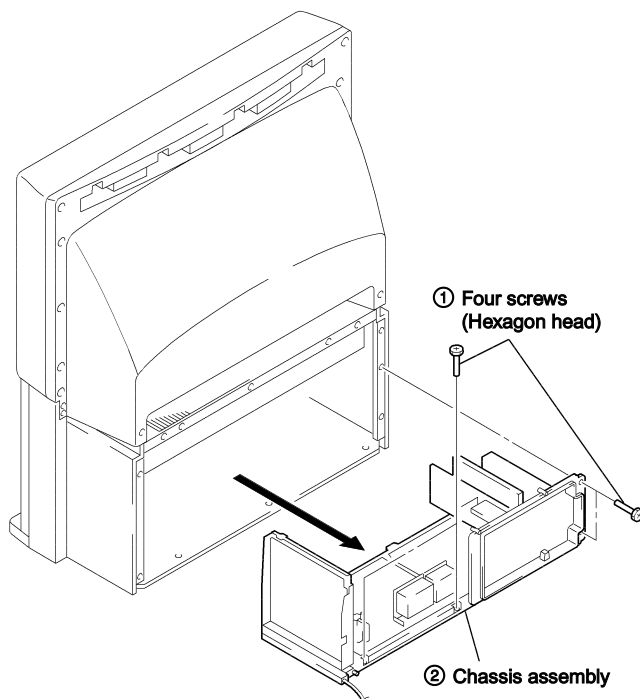
3-1. REAR COVER REMOVAL



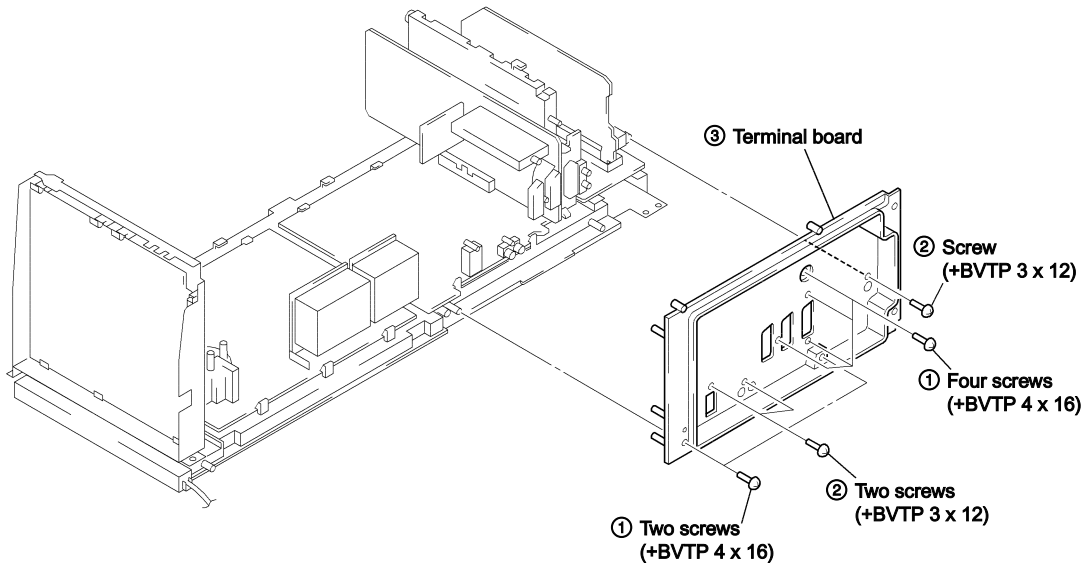
3-3. SERVICE POSITION



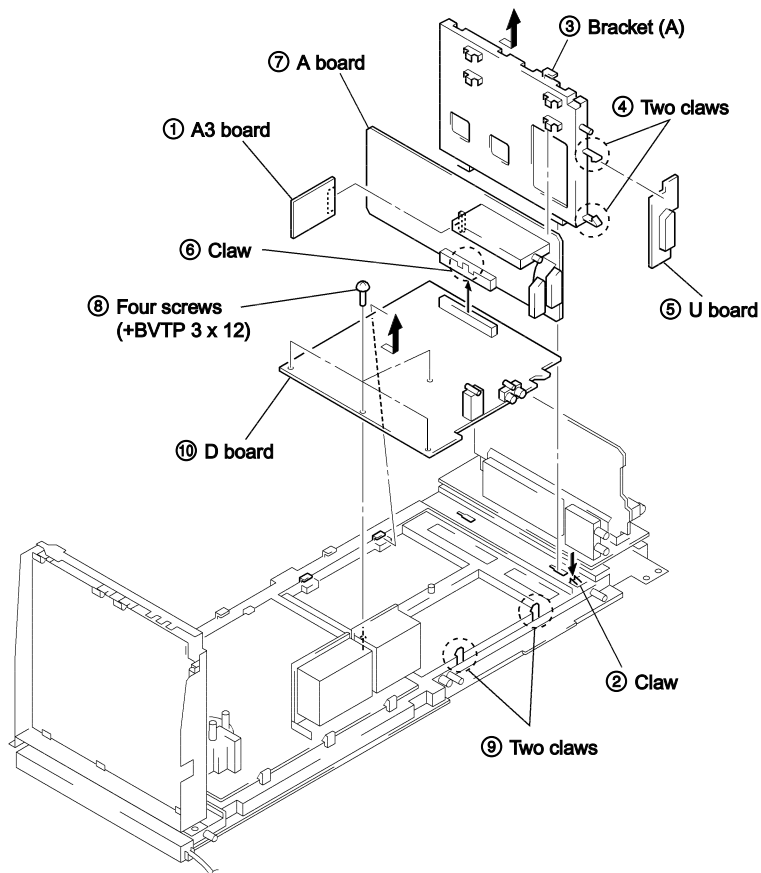
3-2. CHASSIS ASSEMBLY REMOVAL



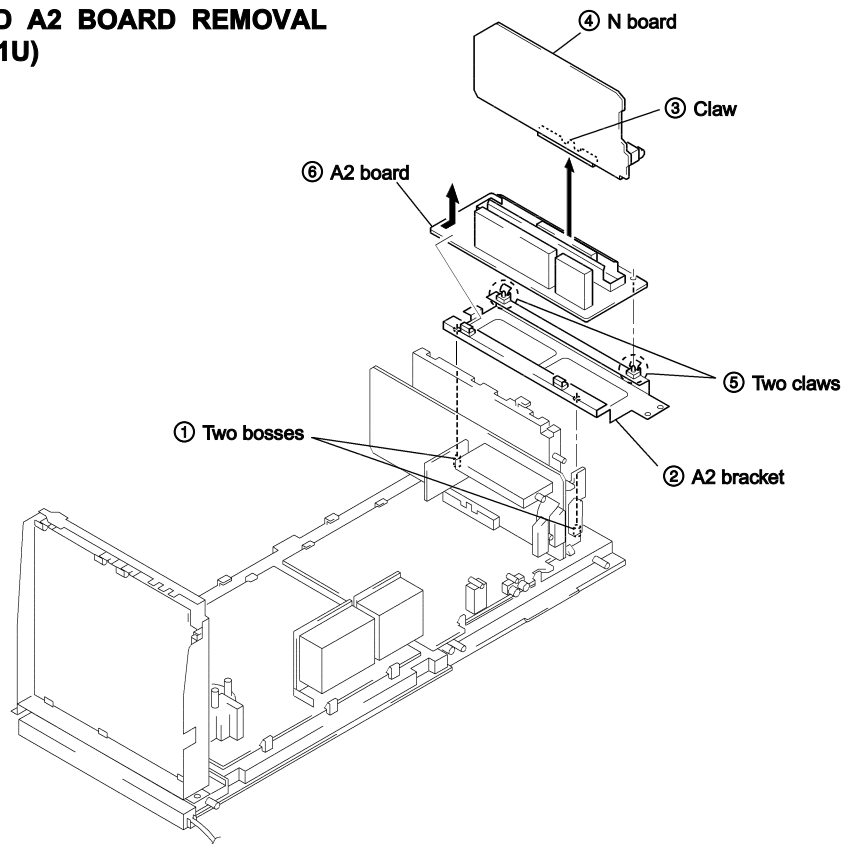
3-4. TERMINAL BOARD REMOVAL



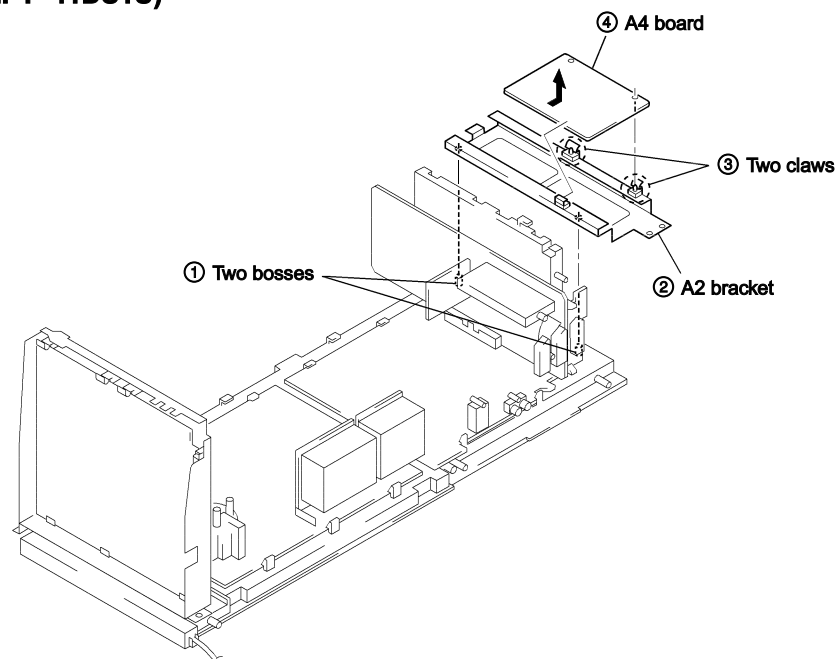
3-5. A3, U, A AND D BOARD REMOVAL



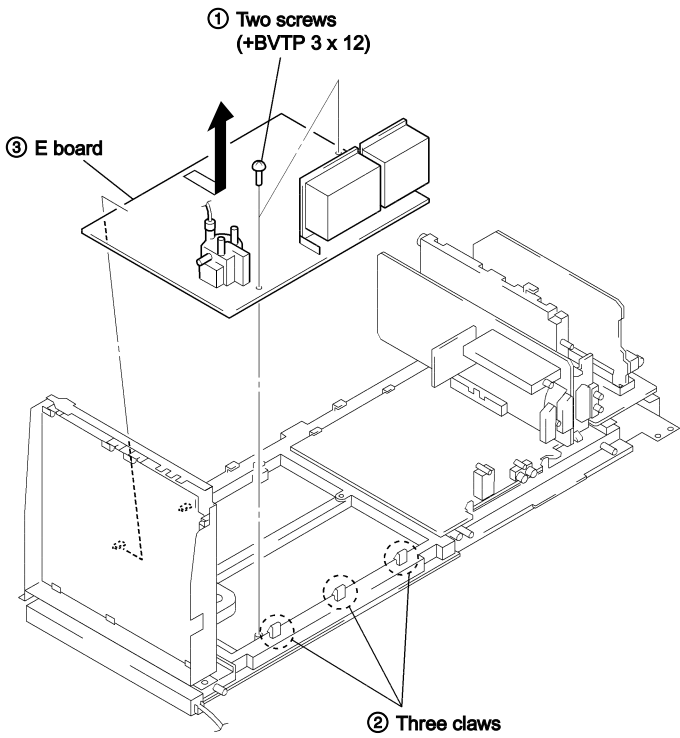
**3-6. N AND A2 BOARD REMOVAL
(41DS1U)**



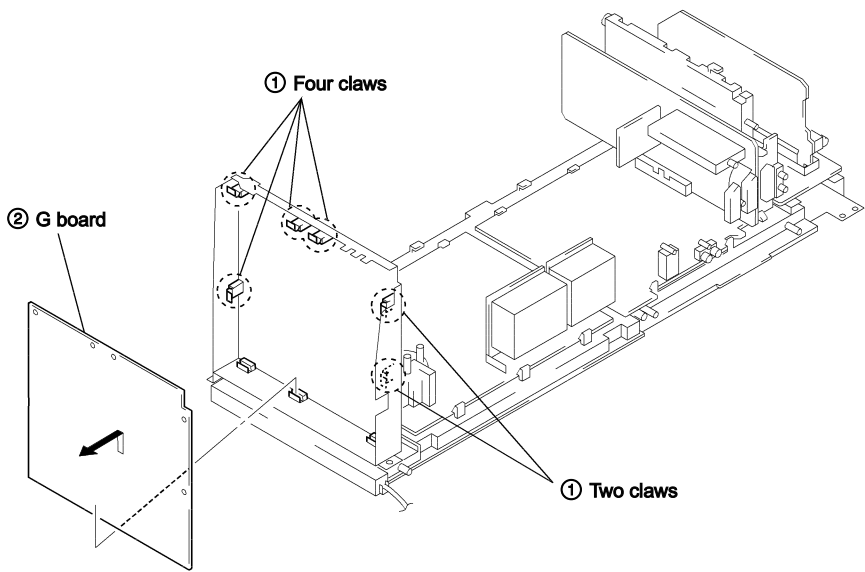
**3-7. A4 BOARD REMOVAL
(EXCEPT 41DS1U)**



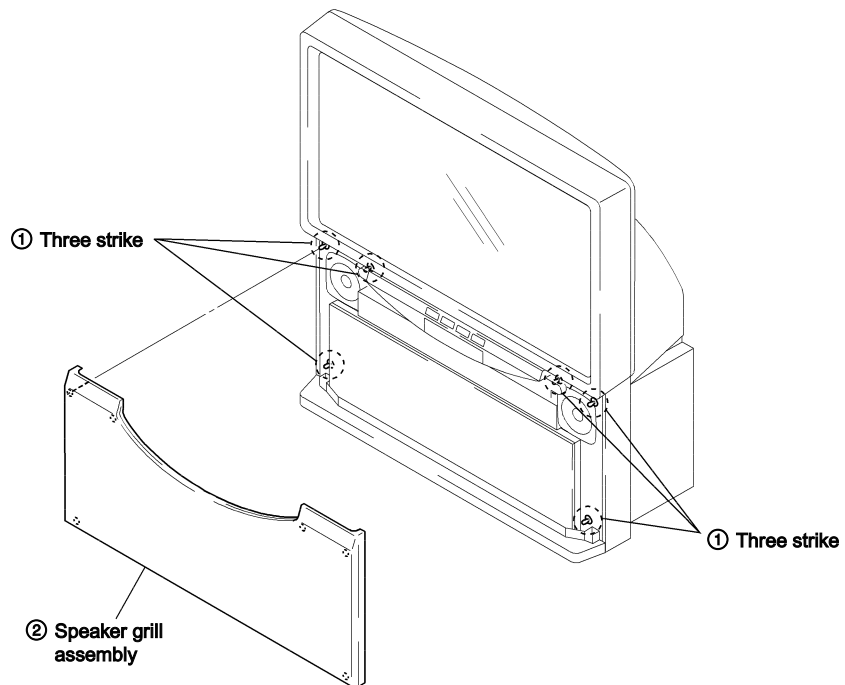
3-8. E BOARD REMOVAL



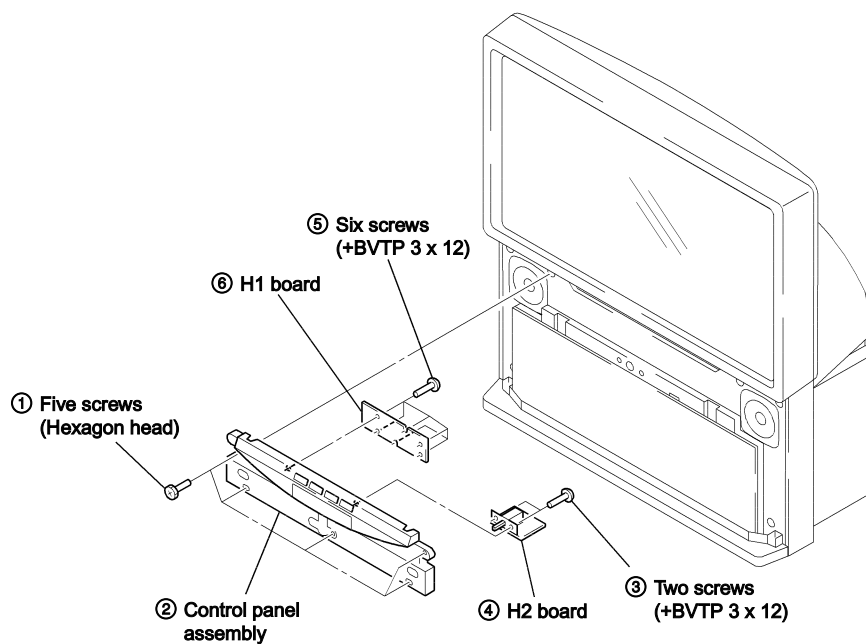
3-9. G BOARD REMOVAL



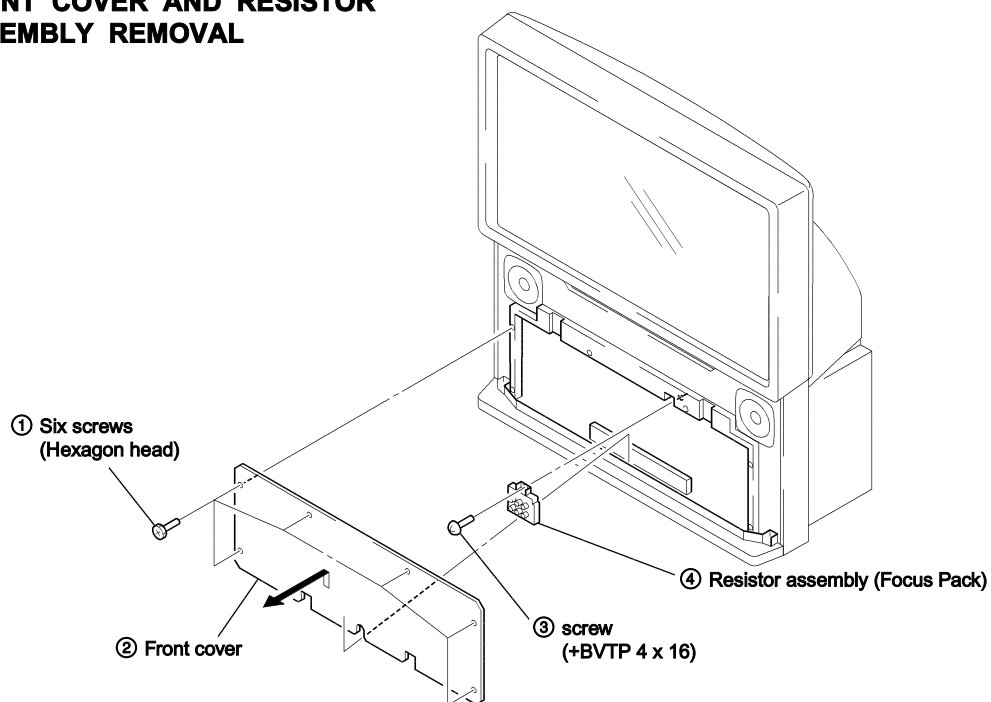
3-10. SPEAKER GRILLE ASSEMBLY REMOVAL



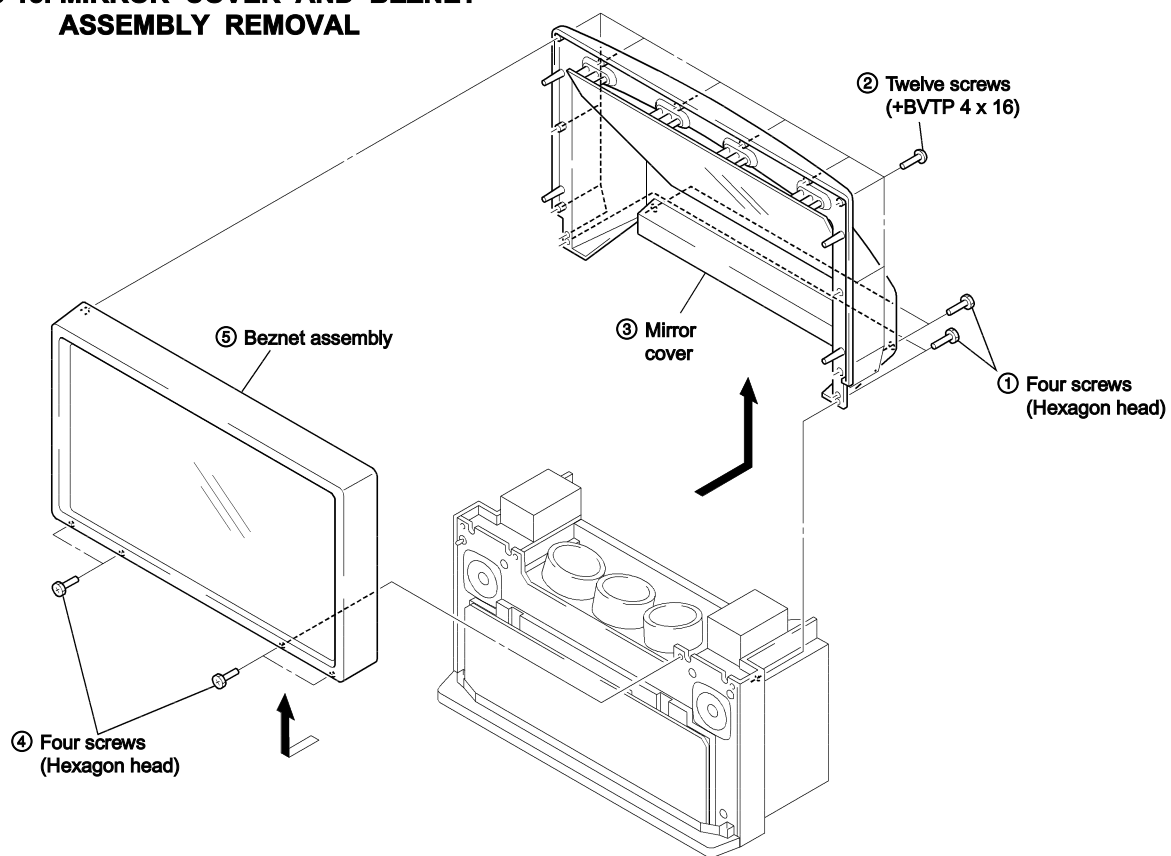
3-11. CONTROL PANEL ASSEMBLY, H1 AND H2 BOARD REMOVAL



3-12. FRONT COVER AND RESISTOR ASSEMBLY REMOVAL



3-13. MIRROR COVER AND BEZNET ASSEMBLY REMOVAL



SECTION 4 SET-UP ADJUSTMENTS

4-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the focus pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

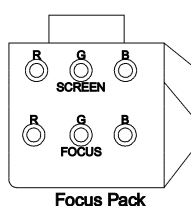
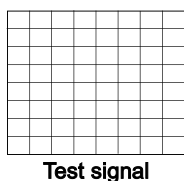


Fig. 4-1

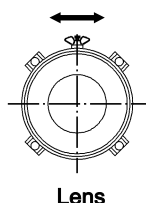
4-2. FOCUS ADJUSTMENT

1. Loose the lens screw.
2. Set in service mode. (Refer to SECTION 6.)
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Press "MENU" on the Commander and select Convergence and OSD CHSW = "00" to display the test signal (crosshatch) on the screen.
5. Rotate the green lens and align with the optimal focus point from the test signal.
6. Rotate the green focus VR on the focus pack and align to obtain the optimal focus point.
7. Perform the same alignment for red and blue lenses and electric focus.
8. Fix lens screw.



Test signal

Fig. 4-2



Lens

Fig. 4-3

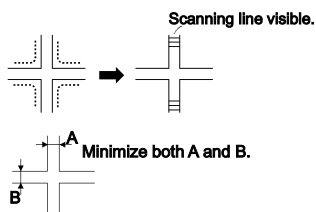


Fig. 4-4

4-3. SCREEN (G2) ADJUSTMENT

1. Connect JIG (A) to 200 V and GND.
2. Select VIDEO1 mode without signals.
3. Connect JIG to the TP701(KR), TP731(KG) or TP761(KB) of CR board, CG board and CB board.
4. Adjust R, G and B screen voltage to until retrace line disappears with screen VR on the focus pack.

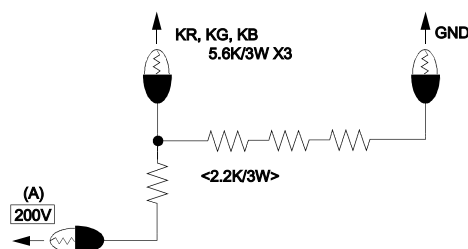


Fig. 4-5

4-4. DEFLECTION YOKE TILT ADJUSTMENT

1. Set to receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color.
3. Loosen the deflection yoke setscrew and align the tilt of the Deflection yoke so that the bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. The tilt of the deflection yoke for red and blue is aligned the same as was done for green.

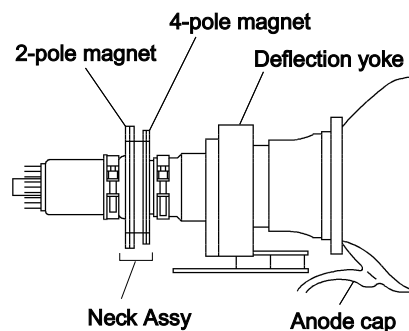


Fig. 4-6

4-5. 2-POLE MAGNET ADJUSTMENT

1. Set to receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the right and set to over focus to enlarge the spot.
4. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the just focus spot.
5. Align the green focus VR and set for just (precise) focus.
6. Perform the same alignment for red and blue.

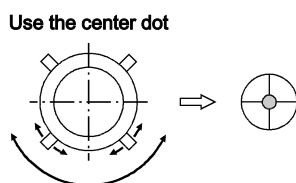


Fig. 4-7

4-6. 4-POLE MAGNET ADJUSTMENT

1. Set to receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the left and set to under focus to enlarge the spot.
4. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
5. Perform the same alignment for red and blue.

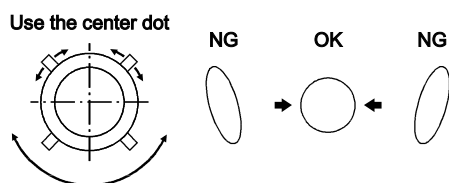


Fig. 4-8

4-7. DEFOCUS ADJUSTMENT (Blue)

1. Receive the Dot signal.
2. Place the caps on the red and green lens so that only the blue color is shown.
3. Rotate the blue focus VR on the focus pack and adjust to obtain best electrical focus.
4. Rotate the blue focus VR on the focus pack clockwise, so that diameter of the dot see caution.

[How to Blue Defocus]

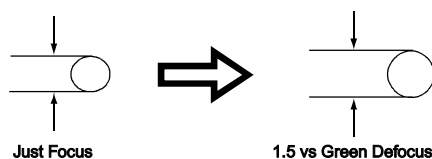


Fig. 4-9

[Change Blue Defocus]



Fig. 4-10

4-8. GREEN AND RED FOCUS ADJUSTMENT

4-8-1. Green and Red Lens Focus Adjustment

1. Input a monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the Green lens and adjust to obtain the best lens focus.
4. Fix lens screw.
5. Repeat above process for Red.

4-8-2. Green and Red Electrical Focus Adjustment

1. Input a monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green focus volume on the focus pack and adjust to obtain an optimal electrical focus in center.
4. Repeat above process for Red.

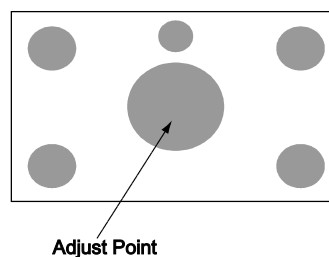





Fig. 4-11

SECTION 5
SAFETY RELATED ADJUSTMENT

When replacing the following components marked with  on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

Part Replaced ()	
R1	

Part Replaced ()	
E Board	C515, C516, C554, D504, D507, L506, Q502, R1, R514, R516, R517, T502, T504 (FBT)
G Board	IC6008

5-1. HV HOLD-DOWN ADJUSTMENT

1. Remove CN810. Connect HV meter to HV Block.
2. Connect External Power Supply to CN810 ② pin (+135 V) and ① pin (GND).

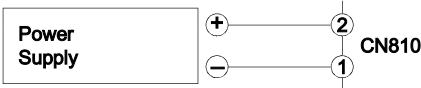


Fig. 5-1

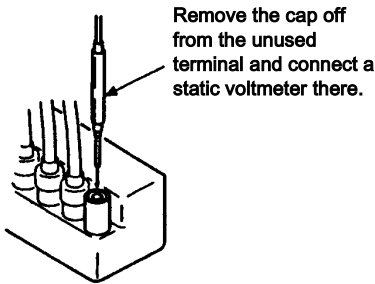


Fig. 5-2

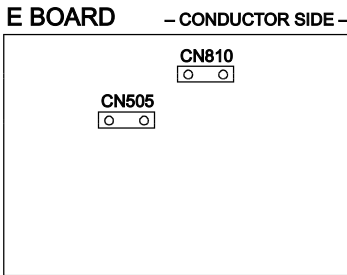


Fig. 5-3

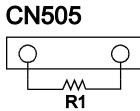


Fig. 5-4

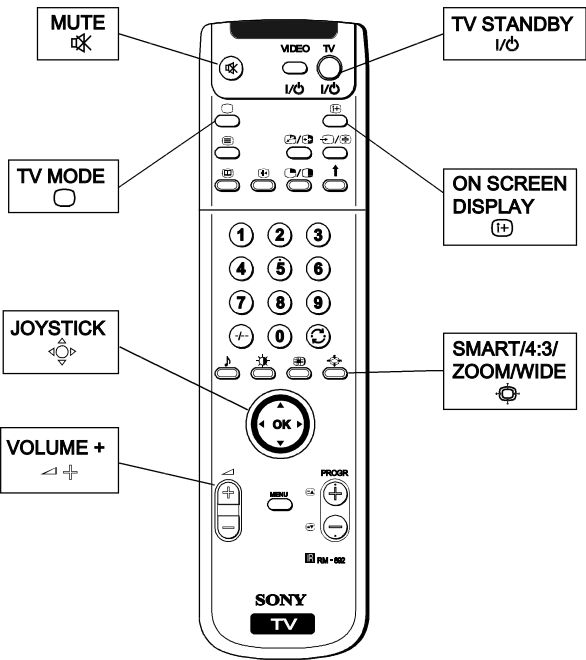
3. Turn on the set.
4. Slowly up the supply voltage from 135 V to 155 V.
5. Receive dot picture and set PICTURE/BRIGHTNESS to minimum.
6. Slowly up the voltage until hold-down circuit works (picture disappear).
7. Read the HV meter of peak HV voltage.
Spec : 34.5 ±0.75 KV
8. If Hold-down voltage is less than 33.75 KV then solder R1 = 820 K.
9. If hold-down voltage is over than 35.25 KV then take-off R514 and solder R1 = 9.1 K.

SECTION 6
REGISTRATION ADJUSTMENTS

6-1. HOW TO ENTER THE SERVICE MODE

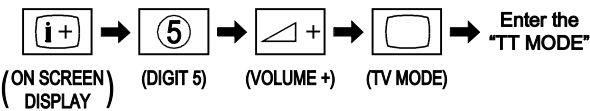
6-1-1. Adjustment Method with Commander

Service adjustment to this model can be performed with the supplied remote commander RM-892.



RM-892

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



"TT - -" will appear in the top right corner of the screen.
Other status information will also be displayed.

3. Press "MENU" on the commander to obtain the following menu on the screen.

TEST MENU	
Picture Adjustment	
Geometry	
Wide	
IC Status	
MSP	
Dynamic Convergence	
Current TV Status	
Convergence	

4. Move to the corresponding adjustment using the joystick (▲ or ▼ : up or down) on the commander.
5. Move the joystick to the right (▶) to enter the selected adjustment.
6. Press "OK" to exit.
7. Before TURN OFF is necessary:
DATA WRITE : Press "MUTE" + "0"
DATA COPY : Press "ON SCREEN DISPLAY" + "0"
8. Turn off the power to quit the service mode when adjustments are completed.

6-1-2. Screen Display on the Test Menu

Picture Adjustment

PICTURE ADJUSTMENT		
AFC Mode	1	0 - 3
Ref Position	2	0 - 3
SCP BGR	1	0 - 3
SCP BGF	1	0 - 3
Trap F0	9	0 - 15
Sub Contrast	8	0 - 15
Sub Colour	4	0 - 15
Sub Brightness	16	0 - 63
Green Drive	16	0 - 63
Blue Drive	39	0 - 63
Green Cutoff	6	0 - 15
Blue Cutoff	12	0 - 15
Gamma	0	0 - 3
Pre / Overshoot	3	0 - 3
Y Delay	6	0 - 7
D Pic	ON	ON/OFF
D Color	ON	ON/OFF
DC Transfer	OFF	ON/OFF

Geometry (* : No need to adjust)

GEOMETRY ADJUSTMENT					
	Wide	Smart	4:3	Zoom	
V Size	50	50	50	50	0 - 63
V Position	31	31	31	31	0 - 63
S Correction	7	7	7	7	0 - 15
V Linearity	7	7	7	7	0 - 15
H Size	40	40	40	40	0 - 63
* H Position	12	12	8	12	0 - 15
Pin Amp	20	20	20	20	0 - 63
Pin Phase	8	8	8	8	0 - 15
AFC Bow	7	7	7	7	0 - 15
AFC Angle	7	7	7	7	0 - 15
* EHT V	0	0	0	0	0 - 3
* EHT H	0	0	0	0	0 - 3
Lo Corn Pin	2	2	2	2	0 - 15
Up Corn Pin	5	5	5	5	0 - 15

Wide (* : No need to adjust)

WIDE ADJUSTMENT				
	Wide	Smart	Zoom	
* V Aspect	0	15	47	0 - 63
* V Scroll	31	31	30	0 - 63
* Upper V Lin	0	0	0	0 - 15
* Lower V Lin	0	0	0	0 - 15
* Left Blanking	15	15	15	0 - 15
* Right Blanking	15	15	15	0 - 15

IC Status

IC STATUS (CXA2000 / CXA2040)	
<u>CXA2000</u>	
H lock	1
IKR	1
V NG	0
XRAY	0
Colour System	2
CV1 Sync	0
<u>CXA2040</u>	
Sync Sep	1
S1 Mode Pin	01
S2 Mode Pin	01
<u>TUNER</u>	
Tuner Status	01000010

MSP

MSP ADJUSTMENT			
SDR	1	CONCCT	0 FAWCTIST 12
AGC On / Off		ON	ON/OFF
Constant Gain CDB		0	0 - 20
FM Prescale FMP		36	0 - 127
Zwei Mono-St WHI		36	0 - 127
Zwei St-Mono WLO		18	0 - 127
Zwei Mono-Bi WMH		36	0 - 127
Zwei Bi-Mono WLO		18	0 - 127
Time Zwei WML		41	0 - 127
FAWCT Limit		10	0 - 127
FAWCT Soll Init FAW		12	0 - 127
FAW ER Tol		2	0 - 127
NICAM Err Max CCT		10	0 - 127
NICAM Err Min		0	0 - 127
Time NICAM		26	0 - 127
Audio Clock ACO		HIZ	ON/HIZ
SCART Prescale		25	0 - 127
SCART Volume		64	0 - 127
NICAM Prescale I		127	0 - 127
NICAM Prescale L		97	0 - 127
NICAM Prescale BG		97	0 - 127
NICAM Prescale DK		97	0 - 127

Dynamic Convergence

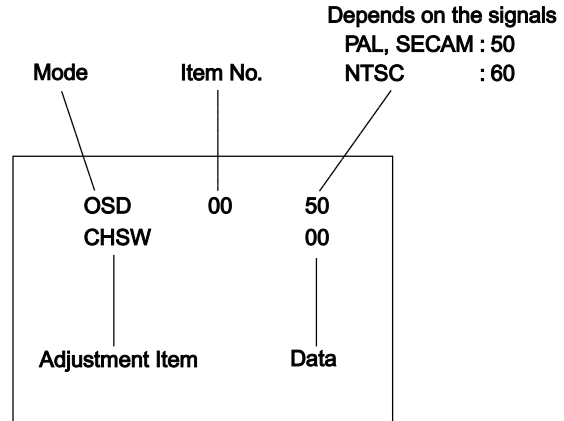
DYNAMIC CONVERGENCE		
Range	0	0 - 42
H stat	0	OFF - 63
H amp l	0	OFF - 63
H amp r	0	OFF - 63
Up Y	0	OFF - 63
Low Y	0	OFF - 63
Y up l	0	OFF - 63
Y up r	0	OFF - 63
Y low l	0	OFF - 63
Y low r	0	OFF - 63
Mbow up l	0	OFF - 63
Mbow up r	0	OFF - 63
Mbow low l	0	OFF - 63
Mbow low r	0	OFF - 63
V stat	0	OFF - 63

KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

Current TV Status

TV STATUS BE-3E(TT09)	
Text System	C Text-2
Dolby Enabled	No
DSP Present	No
Text Language Set	WEST
Menu Language Set	WEST
Destination	E
Ageing	Disabled
Auto Shut Off	Enabled
Size	PJ
Colour Trap Sw	ALL
Velocity Mod	On
AFT Status	Window
Digital PF	No
Micro/Jungle	SDA30C263/CXA2000

Convergence



6-1-3. Service List (Convergence)

Mode	Item Number	Adjustment Item	Data Range	Initial Data			Name / Description	Device
				Wide	Smart	Zoom		
OSD	00	CHSW	00, 01	01			HATCH DISPLAY 00 : Internal Pattern (Crosshatch) 01 : External Pattern	
	01	OSH	01 ~ 32	10			OSD H Position	
	02	OSV	01 ~ 32	10			OSD V Position	
	03	VMRK	00, 01	00			V SIZE MARKER ON / OFF (cannot write to NVM)	
SFT	00	SFTE	00, 01	00			SHIFT ENABLE 00 : Disable 01 : Enable	
	01	SFTF	00, 01	00			SHIFT FAST 00 : Normal 01 : Quick (cannot write to NVM)	
GH	00	GSEL	00, 01	00	00	00	OSD SELECT FOR GH, GV 00 : Green+Red 01 : Green	CXP86213
	01	CENT	-127 ~ +127	31	24	28	GREEN H CENTER	
	02	SKEW	-127 ~ +127	05	05	05	GREEN H SKEW	
	03	BOW	-127 ~ +127	05	06	08	GREEN H BOW	
	04	4BOW	-127 ~ +127	-01	-01	-01	GREEN H 4th BOW	
	05	SIZE	-127 ~ +127	01	24	04	GREEN H SIZE	
	06	LIN	-127 ~ +127	-24	13	-22	GREEN H LINEARITY	
	07	MSIZ	-127 ~ +127	-04	-61	-04	GREEN H MID SIZE	
	08	MLIN	-127 ~ +127	00	02	00	GREEN H MID LINEARITY	
	09	KEY	-127 ~ +127	-07	-06	-10	GREEN H KEYSTONE	
	10	SSKW	-127 ~ +127	03	03	05	GREEN H SUB SKEW	
	11	MPIN	-127 ~ +127	-02	-05	-05	GREEN H MID PINCUSHION	
	12	PIN	-127 ~ +127	-09	-15	-27	GREEN H PINCUSHION	
	13	SBOW	-127 ~ +127	06	07	14	GREEN H SUB BOW	
	14	MBOW	-127 ~ +127	04	04	04	GREEN H MID BOW	
	15	4PIN	-127 ~ +127	03	02	06	GREEN H 4th PINCUSHION	
	16	4SBO	-127 ~ +127	01	02	02	GREEN H 4th SUB BOW	

Mode	Item Number	Adjustment Item	Data Range	Initial Data			Name / Description	Device
				Wide	Smart	Zoom		
GV	00	CENT	-127 ~ +127	-01	-02	-01	GREEN V CENTER	CXP86213
	01	SKEW	-127 ~ +127	00	00	00	GREEN V SKEW	
	02	BOW	-127 ~ +127	14	14	14	GREEN V BOW	
	03	SIZE	-127 ~ +127	00	-10	24	GREEN V SIZE	
	04	LIN	-127 ~ +127	01	02	15	GREEN V LINEARITY	
	05	MSIZ	-127 ~ +127	-01	-04	-02	GREEN V MID SIZE	
	06	MKEY	-127 ~ +127	02	03	04	GREEN V MID KEYSTONE	
	07	KEY	-127 ~ +127	39	50	44	GREEN V KEYSTONE	
	08	SSKW	-127 ~ +127	03	03	03	GREEN V SUB SKEW	
	09	MPIN	-127 ~ +127	-36	-35	-33	GREEN V MID PINCUSHION	
	10	PIN	-127 ~ +127	13	40	66	GREEN V PINCUSHION	
	11	SBOW	-127 ~ +127	01	-01	-01	GREEN V SUB BOW	
	12	WAVW	-127 ~ +127	00	-05	01	GREEN V WAVE	
	13	4PIN	-127 ~ +127	07	-12	09	GREEN V 4th PINCUSHION	
RH	00	CENT	-95 ~ +96	20	14	18	RED H CENTER	
	01	SKEW	-95 ~ +96	-02	-02	-02	RED H SKEW	
	02	BOW	-127 ~ +127	07	07	09	RED H BOW	
	03	4BOW	-127 ~ +127	-01	-01	-01	RED H 4th BOW	
	04	SIZE	-127 ~ +127	00	11	-03	RED H SIZE	
	05	LIN	-127 ~ +127	53	82	56	RED H LINEARITY	
	06	MSIZ	-127 ~ +127	-35	-86	-36	RED H MID SIZE	
	07	MLIN	-127 ~ +127	-28	-13	03	RED H MID LINEARTIY	
	08	KEY	-127 ~ +127	-13	-13	-17	RED H KEYSTONE	
	09	SSKW	-127 ~ +127	05	03	06	RED H SUB SKEW	
	10	MPIN	-127 ~ +127	-06	-11	-14	RED H MID PINCUSHON	
	11	PIN	-127 ~ +127	-08	-14	-25	RED H PINCUSHON	
	12	SBOW	-127 ~ +127	65	66	99	RED H SUB BOW	
	13	MBOW	-127 ~ +127	01	01	05	RED H MID BOW	
	14	4PIN	-127 ~ +127	03	03	06	RED H 4th PINCUSHON	
	15	4SBO	-127 ~ +127	01	01	-02	RED H 4th SUB BOW	
RV	00	CENT	-95 ~ +96	-11	-11	-11	RED V CENTER	
	01	SKEW	-95 ~ +96	00	00	00	RED V SKEW	
	02	BOW	-127 ~ +127	13	13	13	RED V BOW	
	03	SIZE	-127 ~ +127	-12	-21	07	RED V SIZE	
	04	LIN	-127 ~ +127	02	02	14	RED V LINEARITY	
	05	MSIZ	-127 ~ +127	-01	-05	-02	RED V MID SIZE	
	06	MKEY	-127 ~ +127	11	13	23	RED V MID KEYSTONE	
	07	KEY	-127 ~ +127	10	32	21	RED V KEYSTONE	
	08	SSKW	-127 ~ +127	-01	-03	-07	RED V SUB SKEW	
	09	MPIN	-127 ~ +127	-38	-39	-40	RED V MID PINCUSHON	
	10	PIN	-127 ~ +127	-24	01	25	RED V PINCUSHON	
	11	SBOW	-127 ~ +127	03	-04	-06	RED V SUB BOW	
	12	WAVW	-127 ~ +127	32	19	39	RED V WAVE	
	13	4PIN	-127 ~ +127	-05	-20	-07	RED V 4th PINCUSHON	
	14	MWAV	-31 ~ +31	00	01	-01	MID WAVE	
BH	00	BSEL	00, 01	00	00	00	OSD SELECT FOR BH, BV 00 : Blue + Green 01 : Blue + Red	
	01	CENT	-95 ~ +96	05	00	03	BLUE H CENTER	
	02	SKEW	-95 ~ +96	05	05	05	BLUE H SKEW	
	03	BOW	-127 ~ +127	04	05	06	BLUE H BOW	
	04	4BOW	-127 ~ +127	01	00	01	BLUE H 4th BOW	
	05	SIZE	-127 ~ +127	-03	28	01	BLUE H SIZE	
	06	LIN	-127 ~ +127	-89	-38	-84	BLUE H LINEARITY	
	07	MSIZ	-127 ~ +127	01	-66	-07	BLUE H MID SIZE	
	08	MLIN	-127 ~ +127	31	19	29	BLUE H MID LINEARTIY	
	09	KEY	-127 ~ +127	-03	-03	-05	BLUE H KEYSTONE	
	10	SSKW	-127 ~ +127	-04	-04	-03	BLUE H SUB SKEW	
	11	MPIN	-127 ~ +127	-03	-09	-10	BLUE H MID PINCUSHON	
	12	PIN	-127 ~ +127	-03	-04	-06	BLUE H PINCUSHON	
	13	SBOW	-127 ~ +127	-38	-46	-67	BLUE H SUB BOW	
	14	MBOW	-127 ~ +127	-01	02	00	BLUE H MID BOW	
	15	4PIN	-127 ~ +127	02	02	04	BLUE H 4th PINCUSHON	
	16	4SBO	-127 ~ +127	00	02	03	BLUE H 4th SUB BOW	

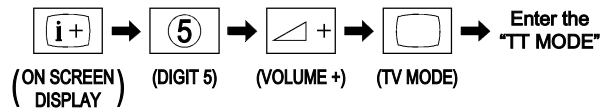
KP-41DS1U/PZ1B/PZ1D/PZ1E
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Mode	Item Number	Adjustment Item	Data Range	Initial Data			Name / Description	Device
				Wide	Smart	Zoom		
BV	00	CENT	-95 ~ +96	12	12	13	BLUE V CENTER	CXP86213
	01	SKEW	-95 ~ +96	00	00	00	BLUE V SKEW	
	02	BOW	-127 ~ +127	20	20	20	BLUE V BOW	
	03	SIZE	-127 ~ +127	-08	-11	14	BLUE V SIZE	
	04	LIN	-127 ~ +127	-02	-01	11	BLUE V LINEARITY	
	05	MSIZ	-127 ~ +127	01	-03	-01	BLUE V MID SIZE	
	06	MKEY	-127 ~ +127	-08	-09	-17	BLUE V MID KEYSTONE	
	07	KEY	-127 ~ +127	72	74	76	BLUE V KEYSTONE	
	08	SSKW	-127 ~ +127	05	04	06	BLUE V SUB SKEW	
	09	MPIN	-127 ~ +127	-39	-39	-38	BLUE V MID PINCUSHON	
	10	PIN	-127 ~ +127	28	45	90	BLUE V PINCUSHON	
	11	SBOW	-127 ~ +127	-02	-05	-04	BLUE V SUB BOW	
	12	WAVW	-127 ~ +127	-42	-40	-53	BLUE V WAVE	
	13	4PIN	-127 ~ +127	-08	-23	-10	BLUE V 4th PINCUSHON	
	14	MWAV	-31 ~ +31	01	02	01	MID WAVE	
ACV	00	ART0	01 ~ 08	06			DATA SAMPLE LENGTH (1 step = 1 μ sec.)	
	01	AT1T	00 ~ 255	18			Data Sampling Start Time	
	02	AT1M	00 ~ 255	132			from V BLK (50Hz)	
	03	AT1B	00 ~ 255	240			(1 step = 64 μ sec = approx. 1H)	
	04	AH51	01 ~ 255	18			(1 step = 1 OSD step) OSD H POS 50 (L&R)	
	05	AH52	01 ~ 255	130			OSD H POS 50 (UP&BOTTOM)	
	06	AV5T	00 ~ 255	01			(1 step = 2 lines) OSD V POS 50 (UP)	
	07	AV5M	00 ~ 255	60			OSD V POS 50 (L&R)	
	08	AV5B	00 ~ 255	130			OSD V POS 50 (BOTTOM)	
	09	AH61	01 ~ 255	18			(1 step = 1 OSD step) OSD H POS 60 (L&R)	
	10	AH62	01 ~ 255	130			OSD H POS 60 (BOTTOM)	
	11	AV6T	00 ~ 255	01			(1 step = 2 lines) OSD V POS 50 (UP)	
	12	AV6M	00 ~ 255	46			OSD V POS 50 (L&R)	
	13	AV6B	00 ~ 255	100			OSD V POS 50 (BOTTOM)	
	14	RHCO	-127 ~ +127	00			(8 step = 1 step) RH CENT ADJ OFFSET	
	15	BHCO	-127 ~ +127	00			BH CENT ADJ OFFSET	
	16	RVCO	-127 ~ +127	00			RV CENT ADJ OFFSET	
	17	BVCO	-127 ~ +127	00			BV CENT ADJ OFFSET	
	18	RHSO	-127 ~ +127	00			RH SKEW ADJ OFFSET	
	19	BHSO	-127 ~ +127	00			BH SKEW ADJ OFFSET	
	20	RVSO	-127 ~ +127	00			RV SKEW ADJ OFFSET	
	21	BVSO	-127 ~ +127	00			BV SKEW ADJ OFFSET	
	22	AERR	00 ~ 255	00			(Error Code)	
MSC	00	ACTL	00 ~ 255	00			Lower byte of counter value	
	01	ACTH	00 ~ 255	00			Higher byte of counter value	

6-2. PAL REGISTRATION ADJUSTMENT

6-2-1. Registration Adjustment Method

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



3. Press "MENU" on the commander.
4. Move to the corresponding adjustment using the joystick (▲ or ▼ : up or down) on the commander.
5. Move the joystick to the right (▶) to enter the selected adjustment.

With the joystick :

- ▲ or ▼ Items change
- ◀ or ▶ Data change

In internal pattern :

ITEM : Convergence

OSD CHSW = "00" Internal pattern (crosshatch)

OSD CHSW = "01" External pattern

Color of internal pattern :

ITEM : Convergence

GH GSEL = "00" Green + Red

GH GSEL = "01" Green

BH BSEL = "00" Blue + Green

BH BSEL = "01" Blue + Red

6-2-2. Geometry Adjustment

1. Receive the PAL SPCB signal.
2. Select wide mode.

Press " (blue key)" : Wide ➔ Smart ➔ 4 : 3 ➔ Zoom

Need geometry adjustment to wide mode, smart mode and zoom mode. Production spec of each mode.

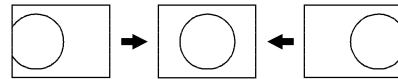
* 4 : 3 mode no adjust. (except for H Position)

3. Select service mode and enter adjustment item for green signal.

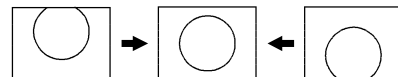
CENTER ADJUSTMENT

1. Adjust H Position and V Position.

H Position



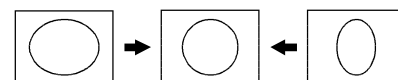
V Position



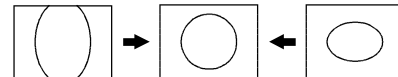
SIZE ADJUSTMENT

1. Make Convergence GH SIZE data "00".
2. Adjust Geometry H Size.
3. Make Convergence GV SIZE data "00".
4. Adjust Geometry V Size.
5. Adjust Geometry S Correction.

H Size



V Size



Signal : SPCB PAL

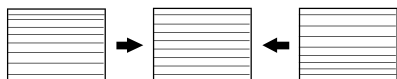
	H SIZE	V SIZE
Wide	16.6 ±0.15 sq	12.4 ±0.15 sq
Smart	17.0 ±0.15 sq	11.4 ±0.15 sq
Zoom	16.65 ±0.15 sq	9.3 ±0.15 sq

MAIN DEFLECTION ADJUSTMENT

1. Adjust V Linearity.

Correct linearity of the horizontal top and bottom lines.

V Linearity



2. Adjust AFC Angle

Correct the vertical center line to be in parallel with the screen edges and other colors.

AFC Angle



3. Adjust AFC Bow

Correct linearity of the vertical center line.

AFC Bow



4. Adjust PIN Amp

Correct the vertical left and right lines and eliminate pin-cushion-shaped distortion.

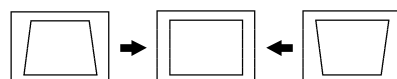
PIN Amp



5. Adjust PIN Phase

Correct the vertical left and right lines to be in parallel with each other.

PIN Phase



6. Adjust Up Corn Pin

Correct the screen top section line bow.

Up Corn Pin



7. Adjust Lo Corn Pin

Correct the screen bottom section line bow.

Lo Corn Pin



6-2-3. Convergence Adjustment

1. Receive the PAL SPCB signal.

2. Select wide mode.

Press “ (blue key)” : Wide → Smart → 4 : 3 → Zoom

Need geometry adjustment to wide mode, smart mode and zoom mode. Production spec of each mode.

* 4 : 3 mode no adjust.

3. Select service mode and enter adjustment item for green signal.

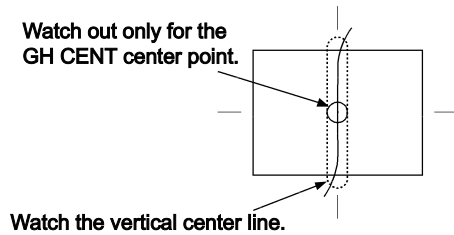
SUB DEFLECTION ADJUSTMENT ITEM

Adjustment ○ : Yes – : No

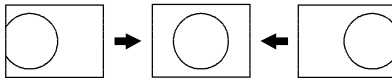
Display	Adjustment item	Adjustment type					
		GH	GV	RH	RV	BH	BV
GSEL	COL SELECT	○	–	–	–	–	–
BSEL	COL SELECT	–	–	–	–	○	–
CENT	CENT	○	○	○	○	○	○
SKEW	SKEW	○	○	○	○	○	○
BOW	BOW	○	○	○	○	○	○
4BOW	4TH BOW	○	–	○	–	○	–
SIZE	SIZE	○	○	○	○	○	○
LIN	LIN	○	○	○	○	○	○
MSIZ	MID SIZE	○	○	○	○	○	○
MLIN	MID LIN	○	–	○	–	○	–
MKEY	MID KEY	–	○	–	○	–	○
KEY	KEY	○	○	○	○	○	○
SSKW	SUB SKEW	○	○	○	○	○	○
MPIN	MID PIN	○	○	○	○	○	○
PIN	PIN	○	○	○	○	○	○
SBOW	SUB BOW	○	○	○	○	○	○
WAVW	WAVE	–	○	–	○	–	○
MBOW	MID BOW	○	–	○	–	○	–
4PIN	4TH PIN	○	○	○	○	○	○
4SBO	4TH SUB BOW	○	–	○	–	○	–
MWAV	MID WAVE	–	–	–	○	–	○

GREEN VERTICAL LINE ADJUSTMENT

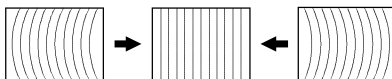
1. Receive the PAL SPCB signal.
2. Carefully watching out for the GH CENT screen center section, adjust GH CENT, GH BOW, GH SKEW.
3. GH 4BOW adjustment. Correct the corner distortion which could not be adjusted with GH BOW.



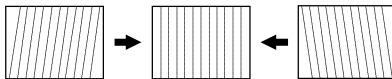
GH CENT



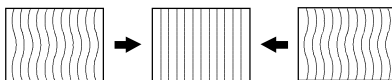
GH BOW



GH SKEW

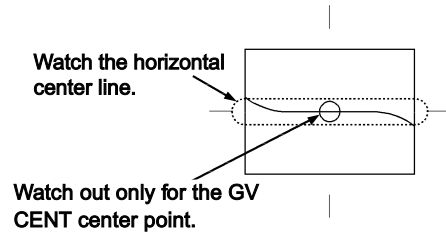


GH 4BOW

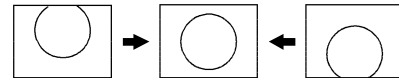


GREEN HORIZONTAL LINE ADJUSTMENT

1. Receive the PAL SPCB signal.
2. Finely adjust the center position of the vertical line at the center of the screen with GV CENT.
3. Using GV SKEW and GV BOW, correct the tilt and bow of the horizontal line at the centre of the screen.



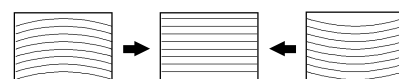
GV CENT



GV SKEW

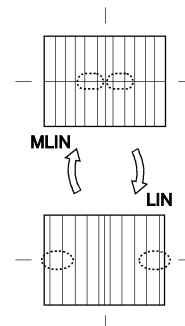


GV BOW



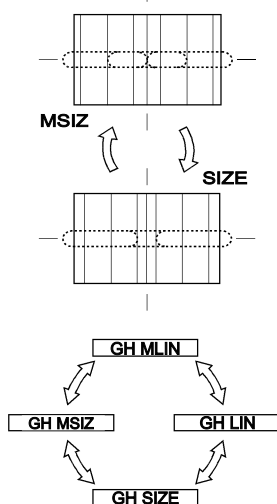
GREEN SIZE AND LINEARITY ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Balance the sizes at both sides of the center section of the screen with GH MLIN.
3. Balance the sizes on both end sections of the screen with GH LIN.
4. While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the center of the screen are symmetrical left and right.



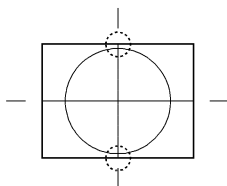
GREEN HORIZONTAL SIZE ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust with GH MSIZ, so that the sizes of both edges and centre are equal.
3. Adjust with GH SIZE, so that the horizontal sizes of both edges and centre are equal.
4. While tracking adjust GH MSIZ and GH SIZE so that the space intervals for the horizontal section of the screen are equal.
5. Adjust again if M LIN is changed after GH MSIZ and GH SIZE are complete.



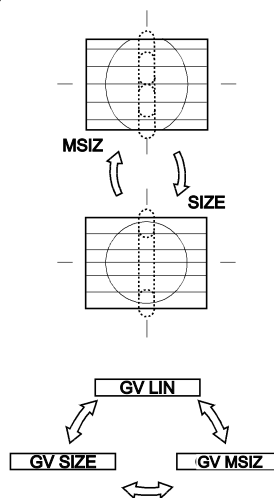
GREEN VERTICAL LINEARITY ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical.



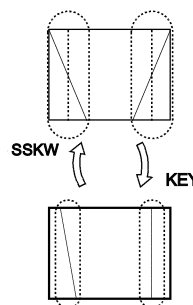
GREEN VERTICAL SIZE ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GV MSIZ so that the sizes at the top and bottom and centre are equal.
3. Set the vertical size to correct specification.
4. While tracking adjust GV MSIZ and GV SIZE so that the space intervals for the vertical line of the screen are equal, also the vertical size should be within space.
5. Adjust again if GV LIN has been altered after completing the above adjustments.



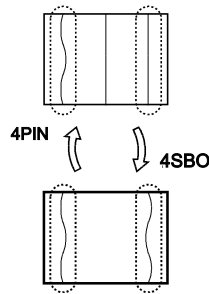
GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH SSKW so that the tilt of the vertical lines at both edges of the screen are symmetrical left and right.
3. Adjust GH KEY so that there is no tilt in the vertical lines at both edges of the screen.
4. While tracking adjust GH KEY and GH SSKW.



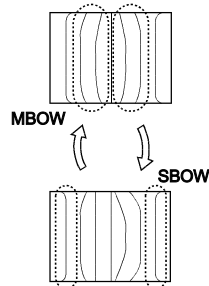
GREEN HORIZONTAL QUATERNARY ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH 4PIN, to correct the 4th order distortion.
3. Adjust GH 4SBO to balance and correct the 4th order distortion at both edges of the screen.
4. While tracking adjust GH 4PIN and GH 4SBO.



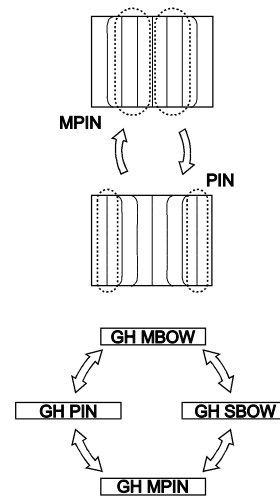
GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH MBOW, so that the pin asymmetry at both sides of the centre section are symmetrical left and right.
3. Adjust GH SBOW so that the bow at both edges of the screen is symmetrical left and right.
4. While tracking adjust GH MBOW and GH SBOW so that the bow of vertical lines over the entire screen is symmetrical.



GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT

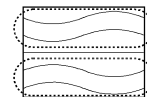
1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH MPIN to correct pin distortion at both edges of the centre section.
3. Use GH PIN to correct pin distortion at both edges of the screen.
4. While tracking adjust GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing.
5. If there is asymmetrical distortion after adjustments, readjust GH MBOW and GH SBOW while tracking.



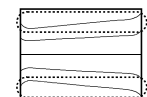
GREEN VERTICAL WAVE (3RD-ORDER) DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Check the screen at the top & bottom, and look for any 2nd or 3rd order waveform distortion of horizontal lines. Correct with GV WAVW.
3. While tracking adjust GV WAVW and GV KEY, if there are any KEY distortion.

GV WAVW



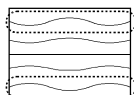
GV KEY



GREEN VERTICAL 4TH ORDER DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. By using GV 4PIN, 4th-Order distortion of the horizontal lines at the top & bottom can be corrected.
Since there is no 4SBO for vertical correction, there will be a slight imbalance, but adjust the registration to eliminate any distortion.

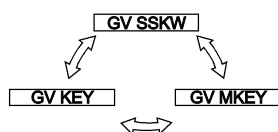
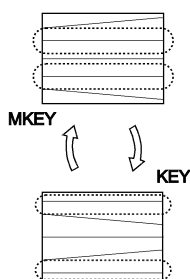
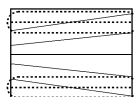
GV 4PIN



GREEN VERTICAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GV SSKW so that the tilt of the horizontal lines at the top and bottom of the screen are symmetrical.
3. Adjust GV MKEY so that there is no tilt for the middle section.
4. Adjust GV KEY so that there is no tilt at the top and bottom of the screen.
5. While tracking adjust GV MKEY and GV KEY, so that there is no tilt over the entire screen.
6. If the tilt is unbalanced after GV MKEY and GV KEY have been adjusted, readjust GV SSKW.

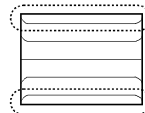
GV SSKW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (2ND-ORDER DISTORTION) ADJUSTMENT

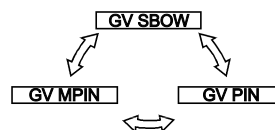
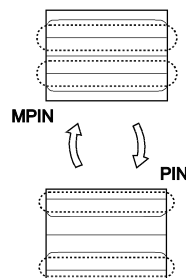
1. Receive the Internal pattern (crosshatch) signal.
2. Correct the asymmetrical pin distortion at the top and bottom of the screen with GV SBOW.

GV SBOW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Using GV MPIN adjust the pin distortion at both edges of the screen and at the centre.
3. Using GV PIN, adjust, so that the horizontal lines at the top & bottom of the screen are straight lines.
4. Adjust GV MPIN & GV PIN so that there is no curve in the horizontal lines on the entire screen.
5. After adjusting the items above, using tracking with GV SBOW, GV MPIN, and GV PIN to correct the entire screen.



RED REGISTRATION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
GH GSEL = "00" (Green + Red)
2. Adjust so that the red lines lay on the green lines.
Adjust, using the same procedure as the green sub item adjustment outline above.

Note : Main registration correction should not be while adjusting Red adjustment.

BEWARE : Not to change green sub items.
It's easily done by mistake.

BLUE ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
BH BSEL = "00" (Blue + Green)
2. Adjust so that the blue lines lay on the green lines.
Adjust, using the same procedure as the green sub item adjustment outline above.

Note : Main registration correction should not be while adjusting Blue adjustment.

BEWARE : Not to change green and red sub items.
It's easily done by mistake.

REGISTRATION DATA WRITE

1. After finish all PAL registration adjustments, write PAL registration data by pressing form the appropriate buttons.

DATA WRITE : Press "MUTE" + "0"

DATA COPY FROM PAL TO NTSC

1. Copy PAL data to NTSC data by pressing form the appropriate buttons.

DATA COPY : Press "ON SCREEN DISPLAY" + "0"

2. Press "ON SCREEN DISPLAY" + "0" to copy data from PAL to NTSC.
If you press "ON SCREEN DISPLAY", then it appears "Copy 5060" to display.

* Make sure input signal is PAL. If input signal is NTSC and do this process, NTSC data are copied to PAL data !

SMART AND ZOOM MODE ADJUSTMENT

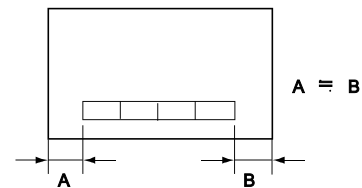
1. Smart and Zoom mode adjustment are the same as Wide mode.

AUTO CONVERGENCE PRESET

1. Set in TT mode.
2. Press "AUTO CONVERGENCE" button on front panel.
3. Confirm convergence is the same condition as before.
4. Press "0" + "0" button on commander to exit from TT mode.
TT00 : Exit from TT mode

6-3. TEXT POSITION ADJUSTMENT

1. Receive RF signal with teletext.
2. Set in TT mode.
3. Press "1" + "4" button on commander.
TT14 : TEXT H POSITION adjustment
4. Adjust H position of text.
5. Push "TV MODE" to exit.



With the joystick :

- ◀ (Move the Left)
- ▶ (Move the Right)

6-4. WHITE BALANCE ADJUSTMENT

1. Receive the monoscope signal.
2. Set in service mode and select Picture Adjustment.
3. Adjust Sub Bright so that the signal 10 IRE section barely glows.
4. Receive the all-white pattern signal.
5. Adjust the white balance with Green Cutoff and Blue Cutoff.
6. Adjust Sub Bright so that the signal 100 IRE section barely glows.
7. Adjust the white balance with Green Drive and Blue Drive.
8. Repeatedly adjust the white balance for the minimum and maximum picture setting.

6-5. SUB BRIGHT ADJUSTMENT

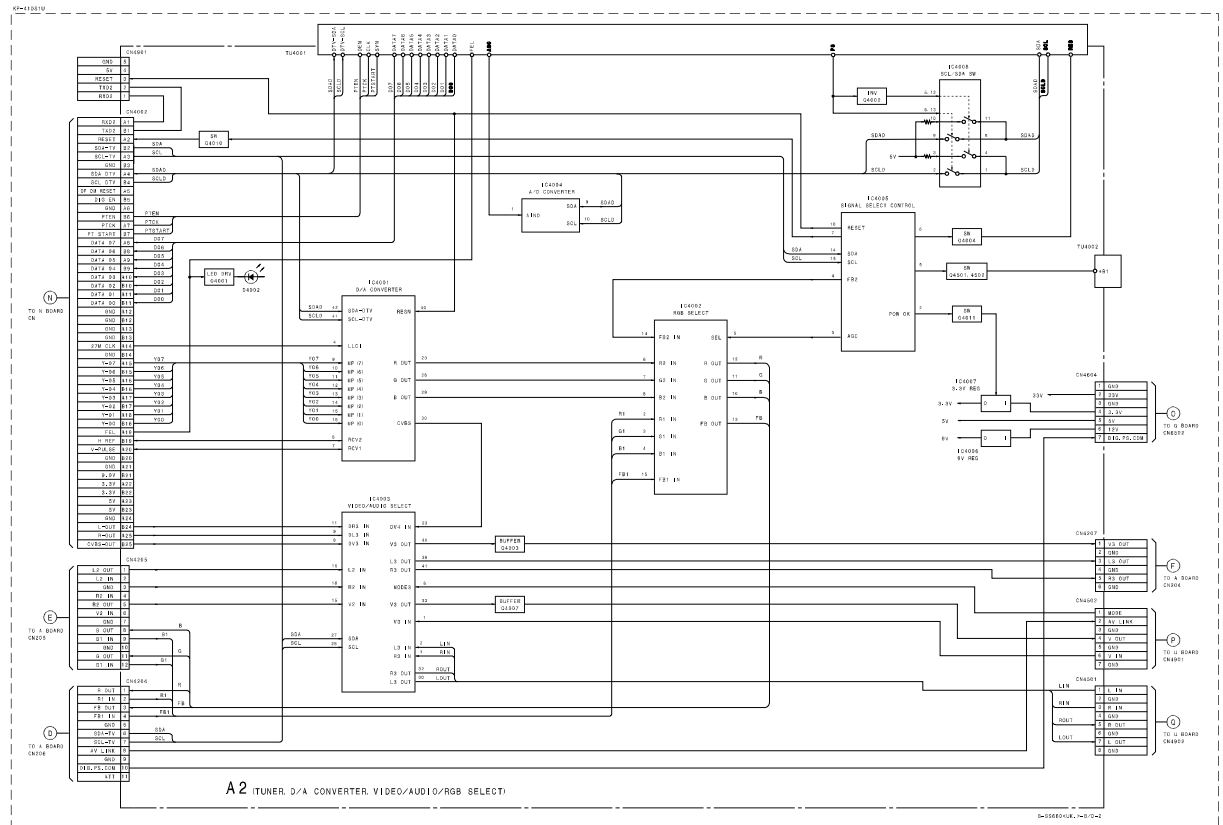
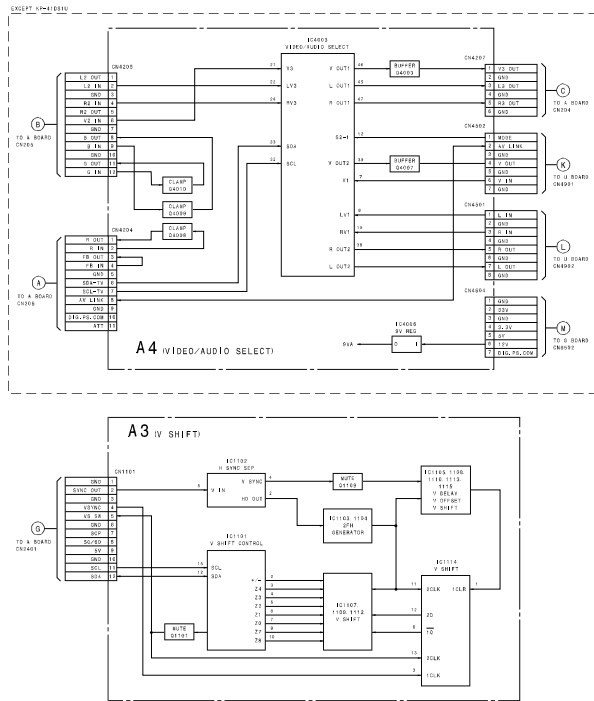
1. Receive the monoscope signal.
2. Set in TT mode.
3. Press "1" + "3" button on commander.
TT13 : SUB BRIGHTNESS adjustment
4. Adjust sub brightness 10 IRE and 20 IRE border just appear point by "◀" or "▶" key of commander.

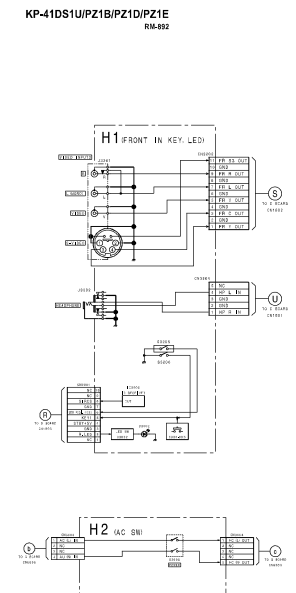
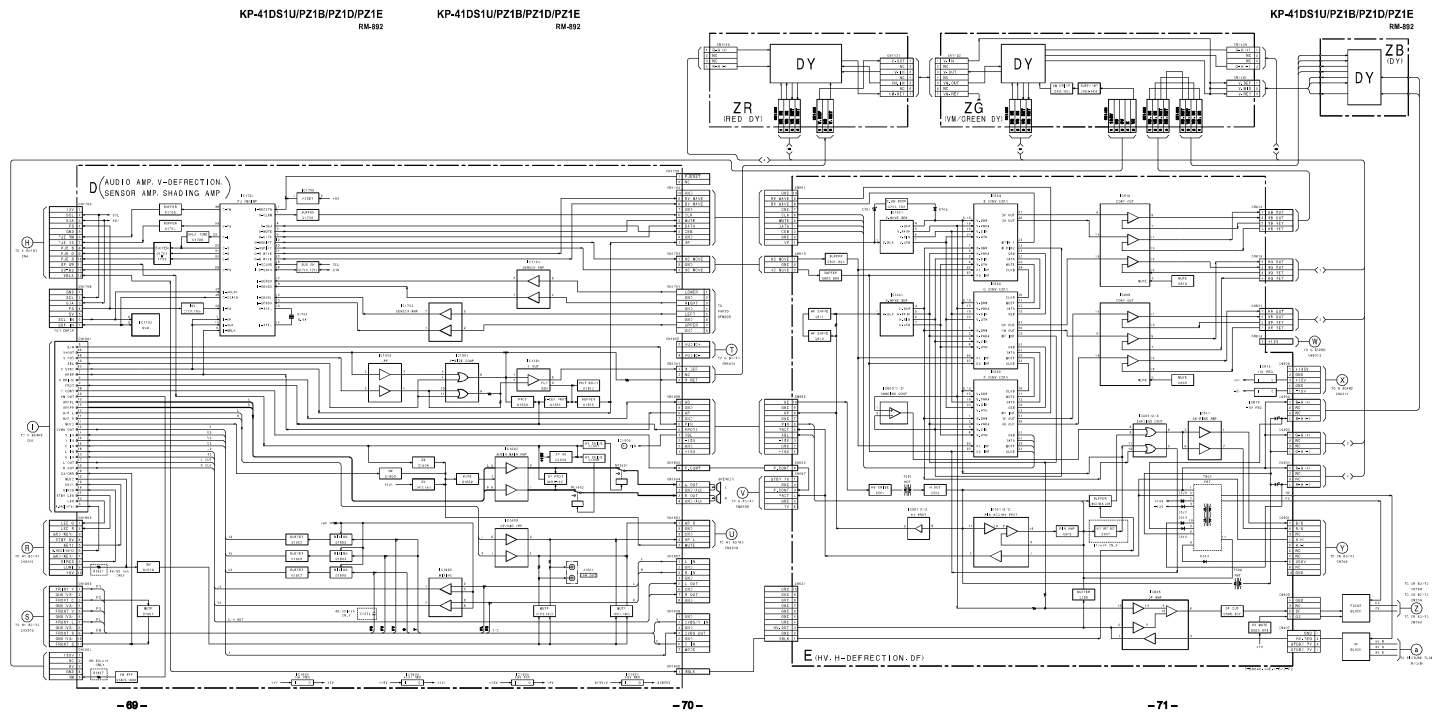
With the joystick :

- ◀ (Down)
- ▶ (Up)

7-1. BLOCK DIAGRAMS

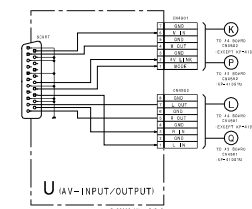






KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892



KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

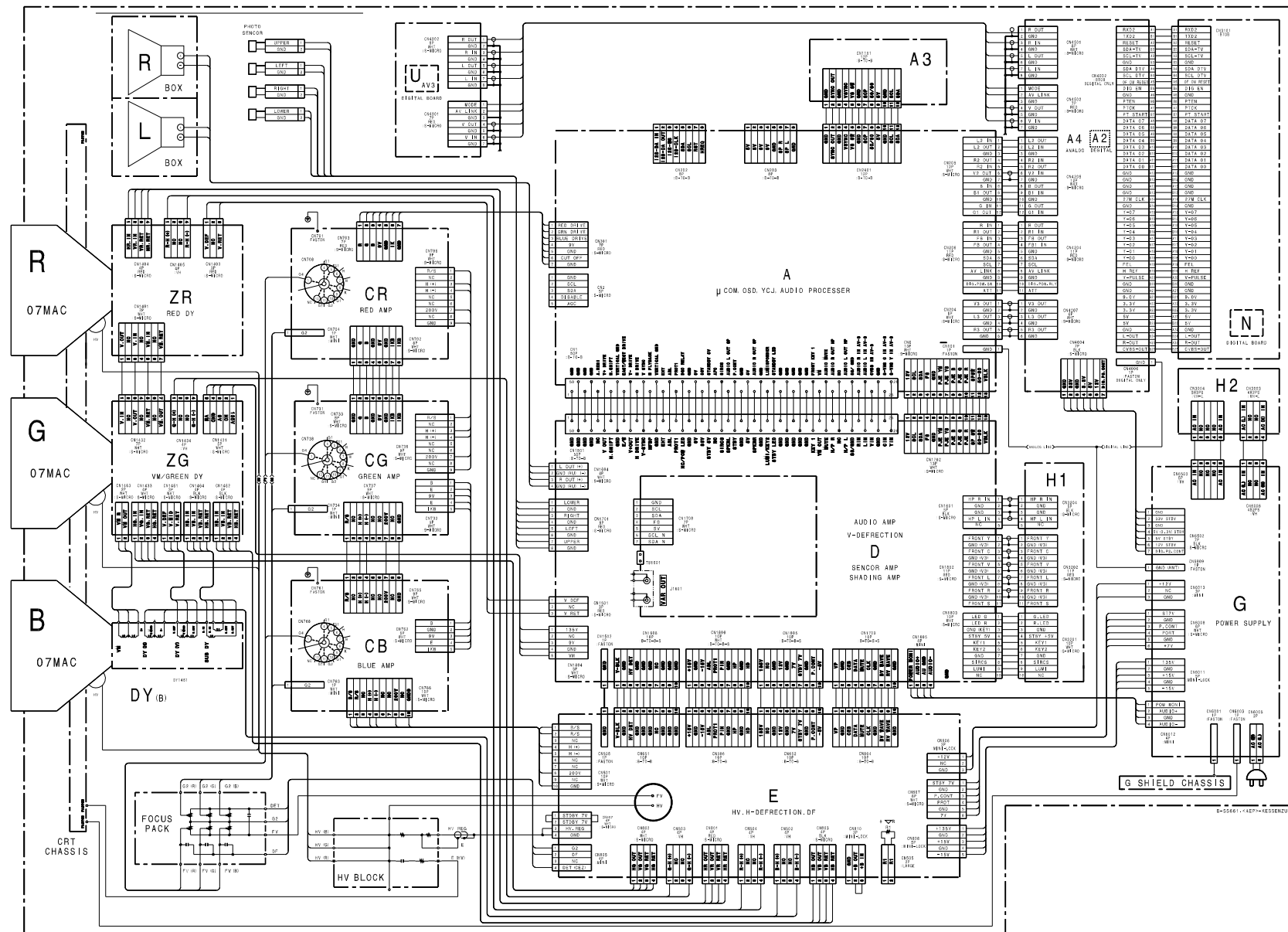


RM-892

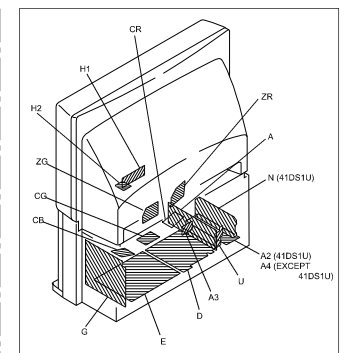
RM-892



7-2. FRAME SCHEMATIC DIAGRAM



7-3. CIRCUIT BOARDS LOCATION



7-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Notes:

- All capacitors are in μ F unless otherwise noted. (pF: μ pF)
- Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4 W (CHIP: 1/10 W)

- All resistors are in ohms.
- $\frac{1}{100}$: nonflammable resistor.
- $\frac{1}{100}$: fusible resistor.
- Δ : internal component.
- Δ : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth-ground.
- --- : earth-channel.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerance.
- \bullet : Can not be measured.
- NO MARK: Common
- Δ : SECAM
- (): NTSC 3.58 MHz
- Circled numbers are waveform references.
- --- : B+ bus.
- --- : B- bus.
- \Rightarrow : Signal path.

Reference Information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-SL	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPB	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

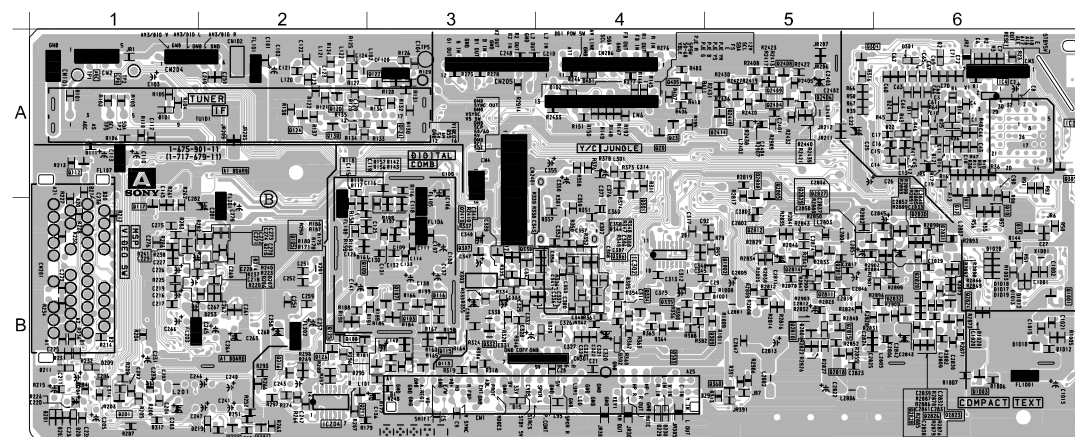
Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Terminal name of semiconductors in silk screen printed circuit (*):

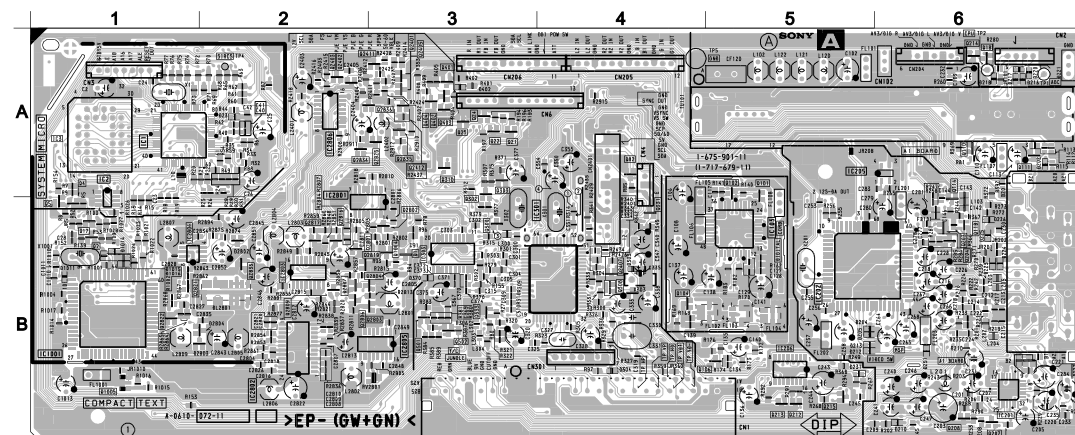
Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
② Transistor		Collector Base Emitter	
③ Diode		Cathode Anode	
④ Diode		Cathode Anode (NC)	
⑤ Diode		Cathode Anode (NC)	
⑥ Diode		Cathode Anode Common	
⑦ Diode		Cathode Anode Common	
⑧ Diode		Cathode Anode Common	
⑨ Diode		Cathode Anode Common	
⑩ Diode		Cathode Anode Common	
⑪ Diode		Cathode Anode Common	
⑫ Diode		Cathode Anode Common	
⑬ Transistor (FET)		Drain Gate Source	
⑭ Transistor (FET)		Drain Gate Source	
⑮ Transistor (FET)		Drain Gate Source	
⑯ Transistor		Collector Base Emitter	
⑰ Transistor		Collector Base Emitter	
⑱ Transistor		Collector Base Emitter	
⑲ Transistor		Collector Base Emitter	
⑳ Transistor		Collector Base Emitter	
㉑ Transistor		Collector Base Emitter	
㉒ Transistor		Collector Base Emitter	
㉓ Transistor		Collector Base Emitter	
㉔ Discrete semiconductor			

(Chip semiconductors that are not actually used are indicated.)

— A BOARD (Conductor Side) —



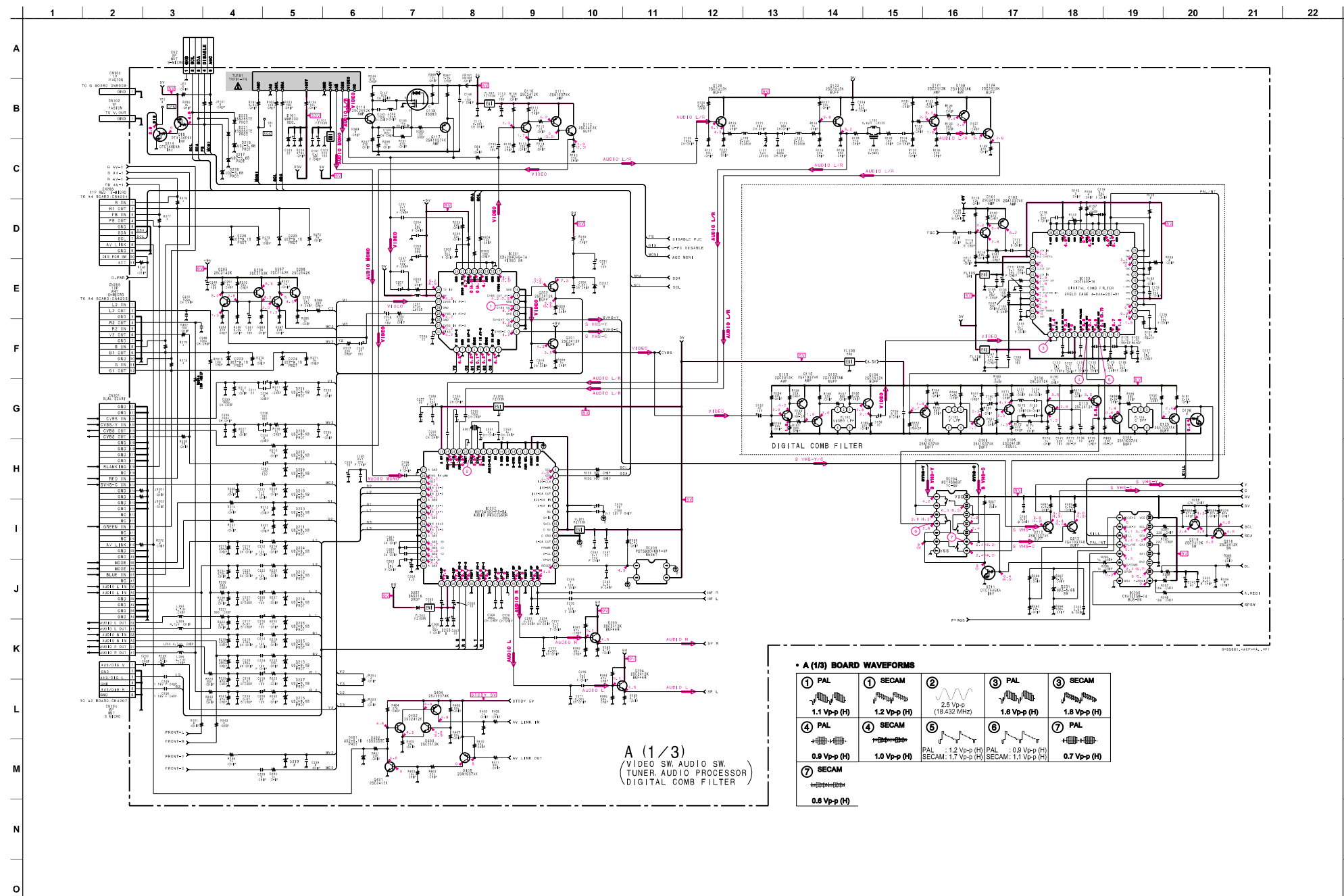
— A BOARD (Component Side) —



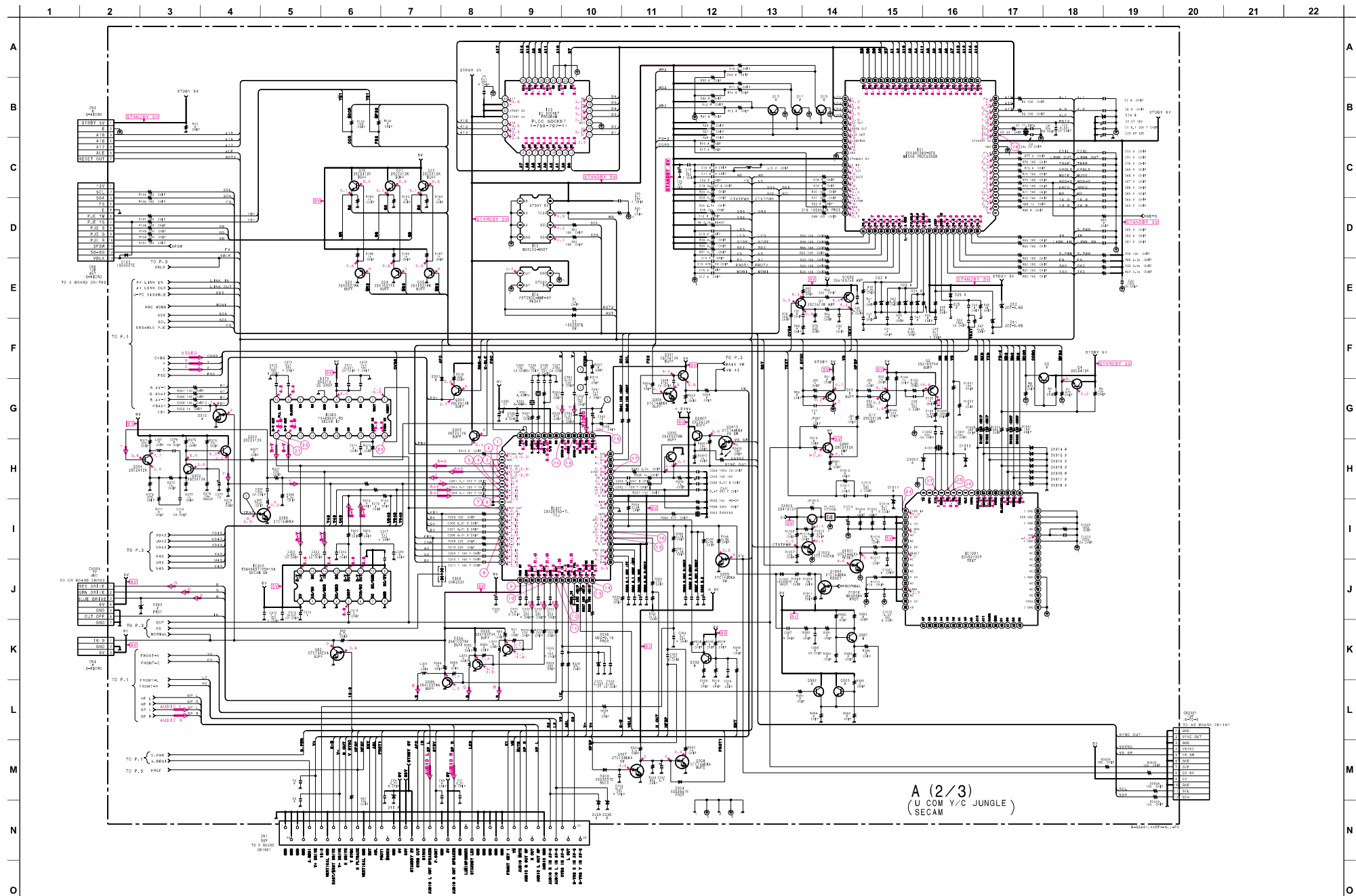
• A BOARD SEMICONDUCTOR LOCATION

IC		Q2403	A-5	A-2
(Component Size) (Component Size)		Q2404	A-5	A-2
IC1	A-1	Q2405 <th>A-3</th> <th>A-3</th>	A-3	A-3
IC2	A-1	Q2406 <th>A-3</th> <th>A-3</th>	A-3	A-3
IC3	A-6 <td>Q2407<th>A-5</th><th>A-5</th></td>	Q2407 <th>A-5</th> <th>A-5</th>	A-5	A-5
IC4	A-1	Q2408 <th>A-5</th> <th>A-5</th>	A-5	A-5
IC103	B-5 <td>Q2409<th>A-5</th><th>A-5</th></td>	Q2409 <th>A-5</th> <th>A-5</th>	A-5	A-5
IC105	B-1 <td>Q2410<th>A-5</th><th>A-5</th></td>	Q2410 <th>A-5</th> <th>A-5</th>	A-5	A-5
IC201	B-6 <td>Q2411<th>A-3</th><th>A-3</th></td>	Q2411 <th>A-3</th> <th>A-3</th>	A-3	A-3
IC202	B-6 <td>Q2412<th>A-3</th><th>A-3</th></td>	Q2412 <th>A-3</th> <th>A-3</th>	A-3	A-3
IC204	B-2 <td>Q2413<th>B-3</th><th>B-3</th></td>	Q2413 <th>B-3</th> <th>B-3</th>	B-3	B-3
IC205	B-3 <td>Q2414<th>A-5</th><th>A-5</th></td>	Q2414 <th>A-5</th> <th>A-5</th>	A-5	A-5
IC206	B-1 <td>Q2415<th>A-5</th><th>A-5</th></td>	Q2415 <th>A-5</th> <th>A-5</th>	A-5	A-5
IC301	B-4 <td>Q2802<th>B-3</th><th>B-3</th></td>	Q2802 <th>B-3</th> <th>B-3</th>	B-3	B-3
IC302	B-4 <td>Q2803<th>A-5</th><th>A-5</th></td>	Q2803 <th>A-5</th> <th>A-5</th>	A-5	A-5
IC303	B-3 <td>Q2805<th>B-2</th><th>B-2</th></td>	Q2805 <th>B-2</th> <th>B-2</th>	B-2	B-2
IC304	B-1 <td>Q2807<th>B-2</th><th>B-2</th></td>	Q2807 <th>B-2</th> <th>B-2</th>	B-2	B-2
IC305	B-3 <td>Q2808<th>A-5</th><th>A-5</th></td>	Q2808 <th>A-5</th> <th>A-5</th>	A-5	A-5
IC2803	B-2 <td>Q2809<th>B-2</th><th>B-2</th></td>	Q2809 <th>B-2</th> <th>B-2</th>	B-2	B-2
IC2804	B-2 <td>Q2810<th>B-2</th><th>B-2</th></td>	Q2810 <th>B-2</th> <th>B-2</th>	B-2	B-2
IC2805	B-2 <td>Q2811<th>B-5</th><th>B-5</th></td>	Q2811 <th>B-5</th> <th>B-5</th>	B-5	B-5
IC2806	B-2 <td>Q2812<th>B-5</th><th>B-5</th></td>	Q2812 <th>B-5</th> <th>B-5</th>	B-5	B-5
IC2807	B-2 <td>Q2813<th>B-5</th><th>B-5</th></td>	Q2813 <th>B-5</th> <th>B-5</th>	B-5	B-5
IC2808	A-2 <td>Q2814<th>B-5</th><th>B-5</th></td>	Q2814 <th>B-5</th> <th>B-5</th>	B-5	B-5
IC2809	A-2 <td>Q2815<th>B-5</th><th>B-5</th></td>	Q2815 <th>B-5</th> <th>B-5</th>	B-5	B-5
TRANSISTOR				
(Component Size) (Component Size)		Q2816	B-5	B-5
Q1	B-5 <td>Q2817<th>B-5</th><th>B-5</th></td>	Q2817 <th>B-5</th> <th>B-5</th>	B-5	B-5
Q2	A-1 <td>Q2820<th>B-1</th><th>B-1</th></td>	Q2820 <th>B-1</th> <th>B-1</th>	B-1	B-1
Q3	B-1 <td>Q2822<th>B-1</th><th>B-1</th></td>	Q2822 <th>B-1</th> <th>B-1</th>	B-1	B-1
Q16	A-6 <td>Q2823<th>B-6</th><th>B-6</th></td>	Q2823 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q20	A-4 <td>Q2824<th>B-6</th><th>B-6</th></td>	Q2824 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q21	A-3 <td>Q2825<th>A-3</th><th>A-3</th></td>	Q2825 <th>A-3</th> <th>A-3</th>	A-3	A-3
Q22	A-3 <td>Q2826<th>B-6</th><th>B-6</th></td>	Q2826 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q23	A-3 <td>Q2827<th>B-6</th><th>B-6</th></td>	Q2827 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q24	A-4 <td>Q2828<th>B-6</th><th>B-6</th></td>	Q2828 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q25	A-5 <td>Q2829<th>B-6</th><th>B-6</th></td>	Q2829 <th>B-6</th> <th>B-6</th>	B-6	B-6
A-182	A-5 <td>Q2830<th>B-6</th><th>B-6</th></td>	Q2830 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q101	A-6 <td>Q2831<th>B-6</th><th>B-6</th></td>	Q2831 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q102	B-5 <td>Q2832<th>B-6</th><th>B-6</th></td>	Q2832 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q103	B-5 <td>Q2833<th>B-2</th><th>B-2</th></td>	Q2833 <th>B-2</th> <th>B-2</th>	B-2	B-2
Q104	B-3 <td>Q2834<th>A-2</th><th>A-2</th></td>	Q2834 <th>A-2</th> <th>A-2</th>	A-2	A-2
Q105	B-3 <td>Q2835<th>A-2</th><th>A-2</th></td>	Q2835 <th>A-2</th> <th>A-2</th>	A-2	A-2
Q106	B-4 <td>Q2836<th>A-3</th><th>A-3</th></td>	Q2836 <th>A-3</th> <th>A-3</th>	A-3	A-3
Q107	B-3 <td></td> <td></td> <td></td>			
Q108	B-2 <td></td> <td></td> <td></td>			
Q109	B-3 <td></td> <td></td> <td></td>			
Q110	A-6 <td></td> <td></td> <td></td>			
Q111	A-6 <td></td> <td></td> <td></td>			
Q112	A-1 <td>D2</td> <th>A-6</th> <th>A-6</th>	D2	A-6	A-6
Q113	B-3 <td>D1</td> <th>B-6</th> <th>B-6</th>	D1	B-6	B-6
Q114	A-6 <td>D12</td> <th>A-6</th> <th>A-6</th>	D12	A-6	A-6
Q115	B-3 <td>D13</td> <th>A-6</th> <th>A-6</th>	D13	A-6	A-6
Q116	B-3 <td>D14</td> <th>A-6</th> <th>A-6</th>	D14	A-6	A-6
Q117	B-1 <td>D15</td> <th>A-1</th> <th>A-1</th>	D15	A-1	A-1
Q118	B-1 <td>D16</td> <th>A-2</th> <th>A-2</th>	D16	A-2	A-2
Q119	A-2 <td>D17</td> <th>A-2</th> <th>A-2</th>	D17	A-2	A-2
Q120	A-6 <td>D22</td> <th>B-1</th> <th>A-6</th>	D22	B-1	A-6
Q121	A-3 <td>D23</td> <th>B-1</th> <th>B-1</th>	D23	B-1	B-1
Q122	A-2 <td>D24</td> <th>B-1</th> <th>B-1</th>	D24	B-1	B-1
Q123	A-6 <td>D25</td> <th>B-6</th> <th>B-6</th>	D25	B-6	B-6
Q124	A-2 <td>D26</td> <th>B-6</th> <th>B-6</th>	D26	B-6	B-6
Q125	B-6 <td>D27</td> <th>B-2</th> <th>B-2</th>	D27	B-2	B-2
Q126	B-2 <td>D28</td> <th>B-1</th> <th>B-1</th>	D28	B-1	B-1
Q127	A-2 <td>D29</td> <th>B-1</th> <th>B-1</th>	D29	B-1	B-1
Q201	B-1 <td>D30</td> <th>B-1</th> <th>B-1</th>	D30	B-1	B-1
Q202	B-6 <td>D31</td> <th>B-2</th> <th>B-2</th>	D31	B-2	B-2
Q203	B-6 <td>D32</td> <th>B-6</th> <th>B-6</th>	D32	B-6	B-6
Q204	B-6 <td>D33</td> <th>B-6</th> <th>B-6</th>	D33	B-6	B-6
Q205	B-6 <td>D34</td> <th>B-6</th> <th>B-6</th>	D34	B-6	B-6
Q206	B-6 <td>D35</td> <th>B-6</th> <th>B-6</th>	D35	B-6	B-6
Q207	B-6 <td>D36<th>B-6</th><th>B-6</th></td>	D36 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q208	B-6 <td>D37</td> <th>B-6</th> <th>B-6</th>	D37	B-6	B-6
Q209	B-6 <td>D38<th>B-6</th><th>B-6</th></td>	D38 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q210	B-6 <td>D39<th>B-6</th><th>B-6</th></td>	D39 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q211	B-6 <td>D40<th>B-6</th><th>B-6</th></td>	D40 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q212	B-6 <td>D41<th>B-6</th><th>B-6</th></td>	D41 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q213	B-6 <td>D42<th>B-6</th><th>B-6</th></td>	D42 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q214	B-6 <td>D43<th>B-6</th><th>B-6</th></td>	D43 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q215	B-6 <td>D44<th>B-6</th><th>B-6</th></td>	D44 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q216	B-6 <td>D45<th>B-6</th><th>B-6</th></td>	D45 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q217	B-6 <td>D46<th>B-6</th><th>B-6</th></td>	D46 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q218	B-6 <td>D47<th>B-6</th><th>B-6</th></td>	D47 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q219	B-6 <td>D48<th>B-6</th><th>B-6</th></td>	D48 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q220	B-6 <td>D49<th>B-6</th><th>B-6</th></td>	D49 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q221	B-6 <td>D50<th>B-6</th><th>B-6</th></td>	D50 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q222	B-6 <td>D51<th>B-6</th><th>B-6</th></td>	D51 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q223	B-6 <td>D52<th>B-6</th><th>B-6</th></td>	D52 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q224	B-6 <td>D53<th>B-6</th><th>B-6</th></td>	D53 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q225	B-6 <td>D54<th>B-6</th><th>B-6</th></td>	D54 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q226	B-6 <td>D55<th>B-6</th><th>B-6</th></td>	D55 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q227	B-6 <td>D56<th>B-6</th><th>B-6</th></td>	D56 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q228	B-6 <td>D57<th>B-6</th><th>B-6</th></td>	D57 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q229	B-6 <td>D58<th>B-6</th><th>B-6</th></td>	D58 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q230	B-6 <td>D59<th>B-6</th><th>B-6</th></td>	D59 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q231	B-6 <td>D60<th>B-6</th><th>B-6</th></td>	D60 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q232	B-6 <td>D61<th>B-6</th><th>B-6</th></td>	D61 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q233	B-6 <td>D62<th>B-6</th><th>B-6</th></td>	D62 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q234	B-6 <td>D63<th>B-6</th><th>B-6</th></td>	D63 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q235	B-6 <td>D64<th>B-6</th><th>B-6</th></td>	D64 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q236	B-6 <td>D65<th>B-6</th><th>B-6</th></td>	D65 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q237	B-6 <td>D66<th>B-6</th><th>B-6</th></td>	D66 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q238	B-6 <td>D67<th>B-6</th><th>B-6</th></td>	D67 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q239	B-6 <td>D68<th>B-6</th><th>B-6</th></td>	D68 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q240	B-6 <td>D69<th>B-6</th><th>B-6</th></td>	D69 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q241	B-6 <td>D70<th>B-6</th><th>B-6</th></td>	D70 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q242	B-6 <td>D71<th>B-6</th><th>B-6</th></td>	D71 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q243	B-6 <td>D72<th>B-6</th><th>B-6</th></td>	D72 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q244	B-6 <td>D73<th>B-6</th><th>B-6</th></td>	D73 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q245	B-6 <td>D74<th>B-6</th><th>B-6</th></td>	D74 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q246	B-6 <td>D75<th>B-6</th><th>B-6</th></td>	D75 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q247	B-6 <td>D76<th>B-6</th><th>B-6</th></td>	D76 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q248	B-6 <td>D77<th>B-6</th><th>B-6</th></td>	D77 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q249	B-6 <td>D78<th>B-6</th><th>B-6</th></td>	D78 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q250	B-6 <td>D79<th>B-6</th><th>B-6</th></td>	D79 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q251	B-6 <td>D80<th>B-6</th><th>B-6</th></td>	D80 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q252	B-6 <td>D81<th>B-6</th><th>B-6</th></td>	D81 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q253	B-6 <td>D82<th>B-6</th><th>B-6</th></td>	D82 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q254	B-6 <td>D83<th>B-6</th><th>B-6</th></td>	D83 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q255	B-6 <td>D84<th>B-6</th><th>B-6</th></td>	D84 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q256	B-6 <td>D85<th>B-6</th><th>B-6</th></td>	D85 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q257	B-6 <td>D86<th>B-6</th><th>B-6</th></td>	D86 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q258	B-6 <td>D87<th>B-6</th><th>B-6</th></td>	D87 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q259	B-6 <td>D88<th>B-6</th><th>B-6</th></td>	D88 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q260	B-6 <td>D89<th>B-6</th><th>B-6</th></td>	D89 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q261	B-6 <td>D90<th>B-6</th><th>B-6</th></td>	D90 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q262	B-6 <td>D91<th>B-6</th><th>B-6</th></td>	D91 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q263	B-6 <td>D92<th>B-6</th><th>B-6</th></td>	D92 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q264	B-6 <td>D93<th>B-6</th><th>B-6</th></td>	D93 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q265	B-6 <td>D94<th>B-6</th><th>B-6</th></td>	D94 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q266	B-6 <td>D95<th>B-6</th><th>B-6</th></td>	D95 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q267	B-6 <td>D96<th>B-6</th><th>B-6</th></td>	D96 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q268	B-6 <td>D97<th>B-6</th><th>B-6</th></td>	D97 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q269	B-6 <td>D98<th>B-6</th><th>B-6</th></td>	D98 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q270	B-6 <td>D99<th>B-6</th><th>B-6</th></td>	D99 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q271	B-6 <td>D100<th>B-6</th><th>B-6</th></td>	D100 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q272	B-6 <td>D101<th>B-6</th><th>B-6</th></td>	D101 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q273	B-6 <td>D102<th>B-6</th><th>B-6</th></td>	D102 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q274	B-6 <td>D103<th>B-6</th><th>B-6</th></td>	D103 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q275	B-6 <td>D104<th>B-6</th><th>B-6</th></td>	D104 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q276	B-6 <td>D105<th>B-6</th><th>B-6</th></td>	D105 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q277	B-6 <td>D106<th>B-6</th><th>B-6</th></td>	D106 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q278	B-6 <td>D107<th>B-6</th><th>B-6</th></td>	D107 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q279	B-6 <td>D108<th>B-6</th><th>B-6</th></td>	D108 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q280	B-6 <td>D109<th>B-6</th><th>B-6</th></td>	D109 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q281	B-6 <td>D110<th>B-6</th><th>B-6</th></td>	D110 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q282	B-6 <td>D111<th>B-6</th><th>B-6</th></td>	D111 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q283	B-6 <td>D112<th>B-6</th><th>B-6</th></td>	D112 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q284	B-6 <td>D113<th>B-6</th><th>B-6</th></td>	D113 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q285	B-6 <td>D114<th>B-6</th><th>B-6</th></td>	D114 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q286	B-6 <td>D115<th>B-6</th><th>B-6</th></td>	D115 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q287	B-6 <td>D116<th>B-6</th><th>B-6</th></td>	D116 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q288	B-6 <td>D117<th>B-6</th><th>B-6</th></td>	D117 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q289	B-6 <td>D118<th>B-6</th><th>B-6</th></td>	D118 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q290	B-6 <td>D119<th>B-6</th><th>B-6</th></td>	D119 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q291	B-6 <td>D120<th>B-6</th><th>B-6</th></td>	D120 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q292	B-6 <td>D121<th>B-6</th><th>B-6</th></td>	D121 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q293	B-6 <td>D122<th>B-6</th><th>B-6</th></td>	D122 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q294	B-6 <td>D123<th>B-6</th><th>B-6</th></td>	D123 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q295	B-6 <td>D124<th>B-6</th><th>B-6</th></td>	D124 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q296	B-6 <td>D125<th>B-6</th><th>B-6</th></td>	D125 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q297	B-6 <td>D126<th>B-6</th><th>B-6</th></td>	D126 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q298	B-6 <td>D127<th>B-6</th><th>B-6</th></td>	D127 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q299	B-6 <td>D128<th>B-6</th><th>B-6</th></td>	D128 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q300	B-6 <td>D129<th>B-6</th><th>B-6</th></td>	D129 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q301	A-4 <td>D130<th>B-6</th><th>B-6</th></td>	D130 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q302	A-3 <td>D131<th>B-6</th><th>B-6</th></td>	D131 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q303	A-3 <td>D132<th>B-6</th><th>B-6</th></td>	D132 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q304	A-6 <td>D133<th>B-6</th><th>B-6</th></td>	D133 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q305	A-6 <td>D134<th>B-6</th><th>B-6</th></td>	D134 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q306	A-6 <td>D135<th>B-6</th><th>B-6</th></td>	D135 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q307	B-6 <td>D136<th>B-6</th><th>B-6</th></td>	D136 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q308	B-6 <td>D137<th>B-6</th><th>B-6</th></td>	D137 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q309	B-6 <td>D138<th>B-6</th><th>B-6</th></td>	D138 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q310	B-6 <td>D139<th>B-6</th><th>B-6</th></td>	D139 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q311	B-6 <td>D140<th>B-6</th><th>B-6</th></td>	D140 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q312	B-6 <td>D141<th>A-4</th><th>A-4</th></td>	D141 <th>A-4</th> <th>A-4</th>	A-4	A-4
Q313	B-6 <td>D142<th>B-6</th><th>B-6</th></td>	D142 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q314	B-6 <td>D143<th>B-6</th><th>B-6</th></td>	D143 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q315	B-6 <td>D144<th>B-6</th><th>B-6</th></td>	D144 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q316	B-6 <td>D145<th>B-6</th><th>B-6</th></td>	D145 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q317	B-6 <td>D146<th>B-6</th><th>B-6</th></td>	D146 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q318	B-6 <td>D147<th>B-6</th><th>B-6</th></td>	D147 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q319	B-6 <td>D148<th>B-6</th><th>B-6</th></td>	D148 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q320	B-6 <td>D149<th>B-6</th><th>B-6</th></td>	D149 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q321	B-6 <td>D150<th>B-6</th><th>B-6</th></td>	D150 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q322	B-6 <td>D151<th>B-6</th><th>B-6</th></td>	D151 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q323	B-6 <td>D152<th>B-6</th><th>B-6</th></td>	D152 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q324	B-6 <td>D153<th>B-6</th><th>B-6</th></td>	D153 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q325	B-6 <td>D154<th>B-6</th><th>B-6</th></td>	D154 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q326	B-6 <td>D155<th>B-6</th><th>B-6</th></td>	D155 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q327	B-6 <td>D156<th>B-6</th><th>B-6</th></td>	D156 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q328	B-6 <td>D157<th>B-6</th><th>B-6</th></td>	D157 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q329	B-6 <td>D158<th>B-6</th><th>B-6</th></td>	D158 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q330	B-6 <td>D159<th>B-6</th><th>B-6</th></td>	D159 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q331	B-6 <td>D160<th>B-6</th><th>B-6</th></td>	D160 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q332	B-6 <td>D161<th>B-6</th><th>B-6</th></td>	D161 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q333	B-6 <td>D162<th>B-6</th><th>B-6</th></td>	D162 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q334	B-6 <td>D163<th>B-6</th><th>B-6</th></td>	D163 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q335	B-6 <td>D164<th>B-6</th><th>B-6</th></td>	D164 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q336	B-6 <td>D165<th>B-6</th><th>B-6</th></td>	D165 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q337	B-6 <td>D166<th>B-6</th><th>B-6</th></td>	D166 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q338	B-6 <td>D167<th>B-6</th><th>B-6</th></td>	D167 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q339	B-6 <td>D168<th>B-6</th><th>B-6</th></td>	D168 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q340	B-6 <td>D169<th>B-6</th><th>B-6</th></td>	D169 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q341	B-6 <td>D170<th>B-6</th><th>B-6</th></td>	D170 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q342	B-6 <td>D171<th>B-6</th><th>B-6</th></td>	D171 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q343	B-6 <td>D172<th>B-6</th><th>B-6</th></td>	D172 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q344	B-6 <td>D173<th>B-6</th><th>B-6</th></td>	D173 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q345	B-6 <td>D174<th>B-6</th><th>B-6</th></td>	D174 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q346	B-6 <td>D175<th>B-6</th><th>B-6</th></td>	D175 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q347	B-6 <td>D176<th>B-6</th><th>B-6</th></td>	D176 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q348	B-6 <td>D177<th>B-6</th><th>B-6</th></td>	D177 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q349	B-6 <td>D178<th>B-6</th><th>B-6</th></td>	D178 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q350	B-6 <td>D179<th>B-6</th><th>B-6</th></td>	D179 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q351	B-6 <td>D180<th>B-6</th><th>B-6</th></td>	D180 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q352	B-6 <td>D181<th>B-6</th><th>B-6</th></td>	D181 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q353	B-6 <td>D182<th>B-6</th><th>B-6</th></td>	D182 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q354	B-6 <td>D183<th>B-6</th><th>B-6</th></td>	D183 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q355	B-6 <td>D184<th>B-6</th><th>B-6</th></td>	D184 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q356	B-6 <td>D185<th>B-6</th><th>B-6</th></td>	D185 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q357	B-6 <td>D186<th>B-6</th><th>B-6</th></td>	D186 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q358	B-6 <td>D187<th>B-6</th><th>B-6</th></td>	D187 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q359	B-6 <td>D188<th>B-6</th><th>B-6</th></td>	D188 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q360	B-6 <td>D189<th>B-6</th><th>B-6</th></td>	D189 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q361	B-6 <td>D190<th>B-6</th><th>B-6</th></td>	D190 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q362	B-6 <td>D191<th>B-6</th><th>B-6</th></td>	D191 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q363	B-6 <td>D192<th>B-6</th><th>B-6</th></td>	D192 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q364	B-6 <td>D193<th>B-6</th><th>B-6</th></td>	D193 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q365	B-6 <td>D194<th>B-6</th><th>B-6</th></td>	D194 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q366	B-6 <td>D195<th>B-6</th><th>B-6</th></td>	D195 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q367	B-6 <td>D196<th>B-6</th><th>B-6</th></td>	D196 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q368	B-6 <td>D197<th>B-6</th><th>B-6</th></td>	D197 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q369	B-6 <td>D198<th>B-6</th><th>B-6</th></td>	D198 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q370	B-6 <td>D199<th>B-6</th><th>B-6</th></td>	D199 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q371	B-6 <td>D200<th>B-6</th><th>B-6</th></td>	D200 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q372	B-6 <td>D201<th>B-6</th><th>B-6</th></td>	D201 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q373	B-6 <td>D202<th>B-6</th><th>B-6</th></td>	D202 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q374	B-6 <td>D203<th>B-6</th><th>B-6</th></td>	D203 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q375	B-6 <td>D204<th>B-6</th><th>B-6</th></td>	D204 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q376	B-6 <td>D205<th>B-6</th><th>B-6</th></td>	D205 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q377	B-6 <td>D206<th>B-6</th><th>B-6</th></td>	D206 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q378	B-6 <td>D207<th>B-6</th><th>B-6</th></td>	D207 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q379	B-6 <td>D208<th>B-6</th><th>B-6</th></td>	D208 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q380	B-6 <td>D209<th>B-6</th><th>B-6</th></td>	D209 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q381	B-6 <td>D210<th>B-6</th><th>B-6</th></td>	D210 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q382	B-6 <td>D211<th>B-6</th><th>B-6</th></td>	D211 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q383	B-6 <td>D212<th>B-6</th><th>B-6</th></td>	D212 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q384	B-6 <td>D213<th>B-6</th><th>B-6</th></td>	D213 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q385	B-6 <td>D214<th>B-6</th><th>B-6</th></td>	D214 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q386	B-6 <td>D215<th>B-6</th><th>B-6</th></td>	D215 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q387	B-6 <td>D216<th>B-6</th><th>B-6</th></td>	D216 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q388	B-6 <td>D217<th>B-6</th><th>B-6</th></td>	D217 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q389	B-6 <td>D218<th>B-6</th><th>B-6</th></td>	D218 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q390	B-6 <td>D219<th>B-6</th><th>B-6</th></td>	D219 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q391	B-6 <td>D220<th>B-6</th><th>B-6</th></td>	D220 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q392	B-6 <td>D221<th>B-6</th><th>B-6</th></td>	D221 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q393	B-6 <td>D222<th>B-6</th><th>B-6</th></td>	D222 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q394	B-6 <td>D223<th>B-6</th><th>B-6</th></td>	D223 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q395	B-6 <td>D224<th>B-6</th><th>B-6</th></td>	D224 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q396	B-6 <td>D225<th>B-6</th><th>B-6</th></td>	D225 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q397	B-6 <td>D226<th>B-6</th><th>B-6</th></td>	D226 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q398	B-6 <td>D227<th>B-6</th><th>B-6</th></td>	D227 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q399	B-6 <td>D228<th>B-6</th><th>B-6</th></td>	D228 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q400	B-6 <td>D229<th>B-6</th><th>B-6</th></td>	D229 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q401	B-6 <td>D230<th>B-6</th><th>B-6</th></td>	D230 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q402	B-6 <td>D231<th>B-6</th><th>B-6</th></td>	D231 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q403	B-6 <td>D232<th>B-6</th><th>B-6</th></td>	D232 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q404	B-6 <td>D233<th>B-6</th><th>B-6</th></td>	D233 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q405	A-4 <td>D234<th>B-6</th><th>B-6</th></td>	D234 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q406	A-4 <td>D235<th>B-6</th><th>B-6</th></td>	D235 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q407	A-4 <td>D236<th>B-6</th><th>B-6</th></td>	D236 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q408	A-4 <td>D237<th>B-6</th><th>B-6</th></td>	D237 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q409	A-4 <td>D238<th>B-6</th><th>B-6</th></td>	D238 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q410	A-4 <td>D239<th>B-6</th><th>B-6</th></td>	D239 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q411	A-4 <td>D240<th>B-6</th><th>B-6</th></td>	D240 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q412	A-4 <td>D241<th>B-6</th><th>B-6</th></td>	D241 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q413	A-4 <td>D242<th>B-6</th><th>B-6</th></td>	D242 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q414	A-4 <td>D243<th>B-6</th><th>B-6</th></td>	D243 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q415	A-4 <td>D244<th>B-6</th><th>B-6</th></td>	D244 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q416	A-4 <td>D245<th>B-6</th><th>B-6</th></td>	D245 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q417	A-4 <td>D246<th>B-6</th><th>B-6</th></td>	D246 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q418	A-4 <td>D247<th>B-6</th><th>B-6</th></td>	D247 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q419	A-4 <td>D248<th>B-6</th><th>B-6</th></td>	D248 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q420	A-4 <td>D249<th>B-6</th><th>B-6</th></td>	D249 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q421	A-4 <td>D250<th>B-6</th><th>B-6</th></td>	D250 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q422	A-4 <td>D251<th>B-6</th><th>B-6</th></td>	D251 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q423	A-4 <td>D252<th>B-6</th><th>B-6</th></td>	D252 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q424	A-4 <td>D253<th>B-6</th><th>B-6</th></td>	D253 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q425	A-4 <td>D254<th>B-6</th><th>B-6</th></td>	D254 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q426	A-4 <td>D255<th>B-6</th><th>B-6</th></td>	D255 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q427	A-4 <td>D256<th>B-6</th><th>B-6</th></td>	D256 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q428	A-4 <td>D257<th>B-6</th><th>B-6</th></td>	D257 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q429	A-4 <td>D258<th>B-6</th><th>B-6</th></td>	D258 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q430	A-4 <td>D259<th>B-6</th><th>B-6</th></td>	D259 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q431	A-4 <td>D260<th>B-6</th><th>B-6</th></td>	D260 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q432	A-4 <td>D261<th>B-6</th><th>B-6</th></td>	D261 <th>B-6</th> <th>B-6</th>	B-6	B-6
Q433				

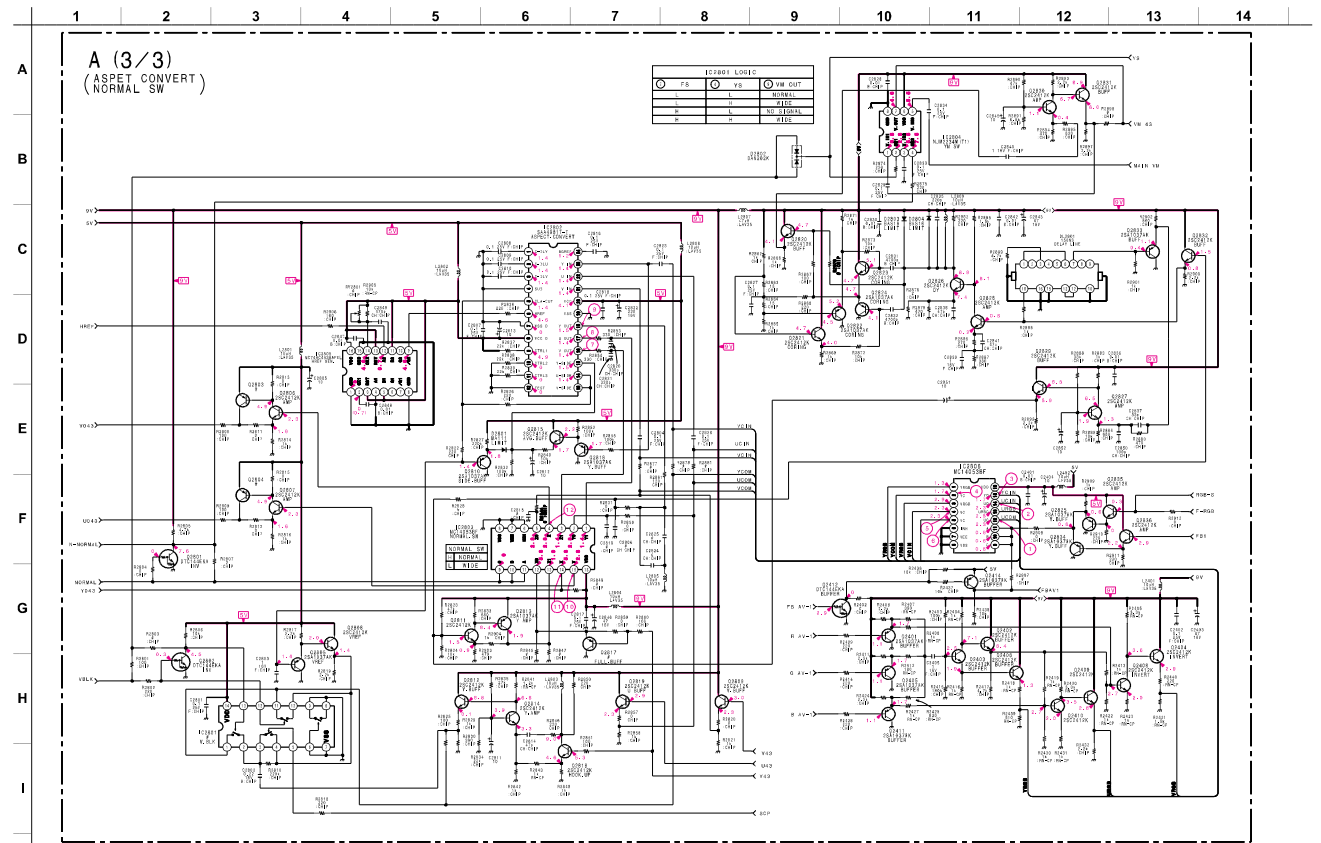
(1) Schematic Diagram of A (1/3) Board



(2) Schematic Diagram of A (2/3) Board



(3) Schematic Diagram of A (3/3) Board



- 94 - - 95 - Schematic diagram
← (3/3) board

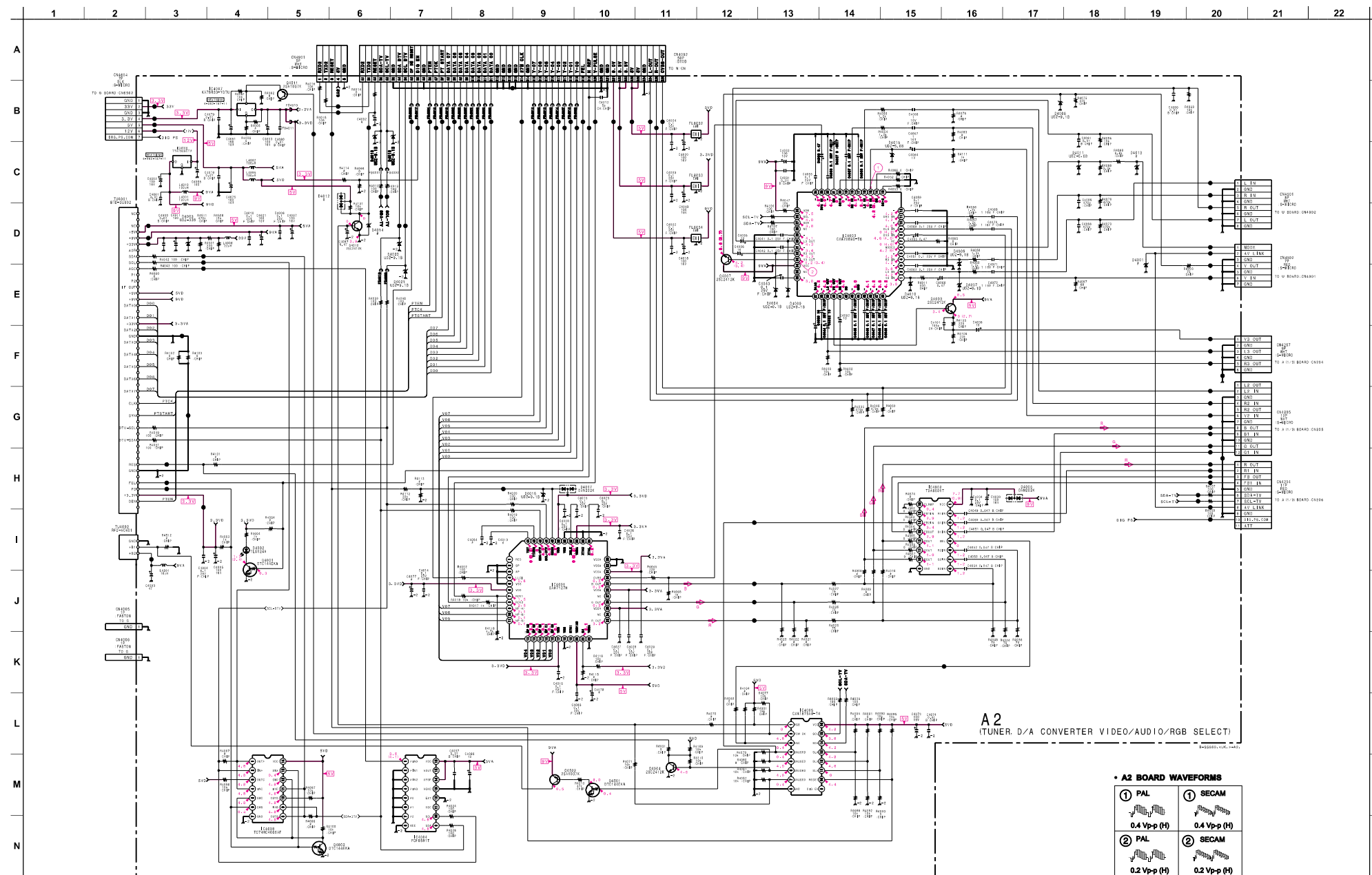
A2 [TUNER, D/A CONVERTER V/A/RGB SELECT]

A3 [V SHIFT]

Ref.	*
Q1101, Q1109	①

A4 [VIDEO/AUDIO SELECT]

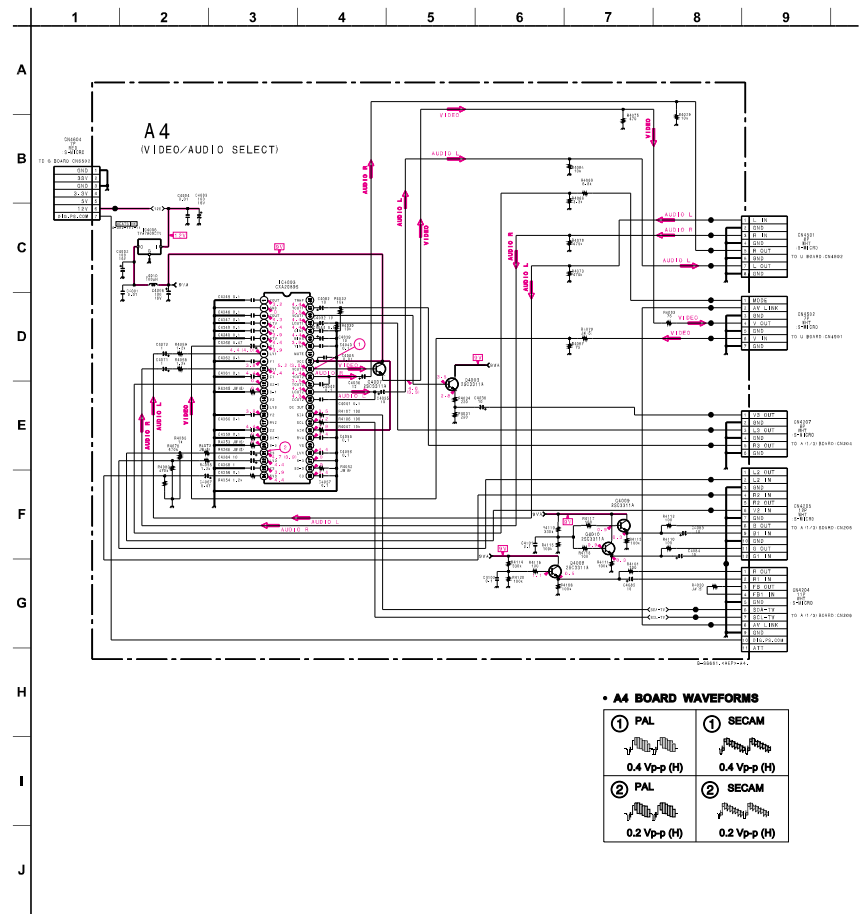
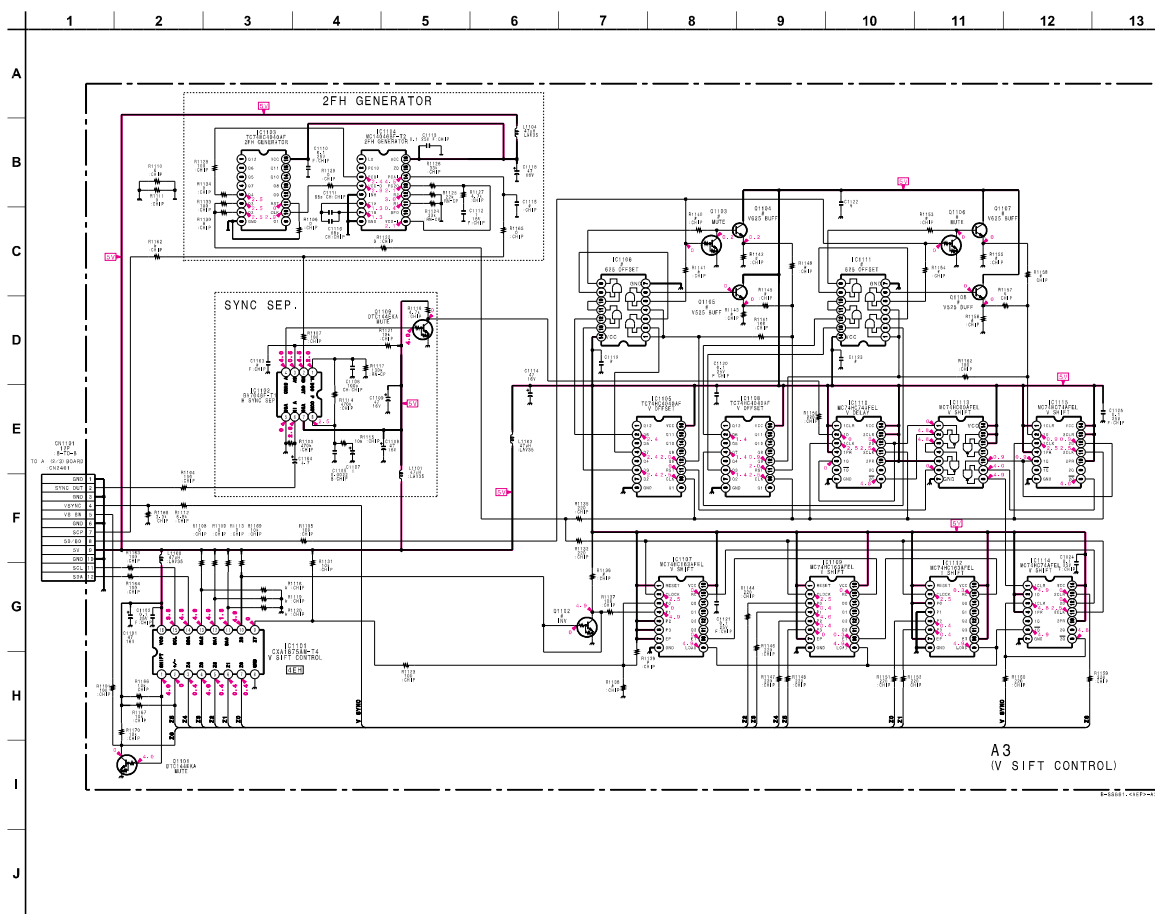
(4) Schematic Diagram of A2 Board



Schematic diagram
← A2 board

Schematic diagrams
A3 | A4 boards →

(5) Schematic Diagrams of A3 and A4 Boards



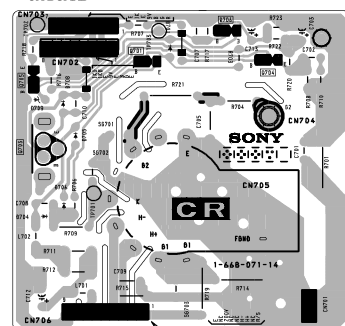
(6) Schematic Diagrams of CB, CG and CR Boards

CR [RED AMP]

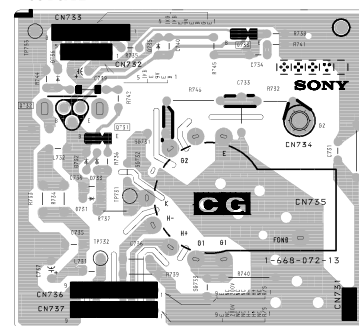
CG [GREEN AMP]

CB [BLUE AMP]

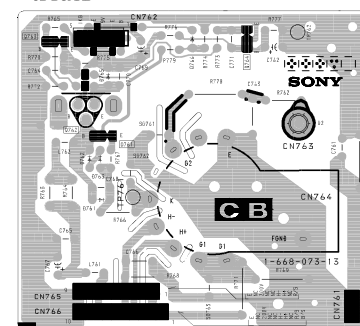
— CR BOARD —



— CG BOARD —



— CB BOARD —



• CR BOARD WAVEFORMS

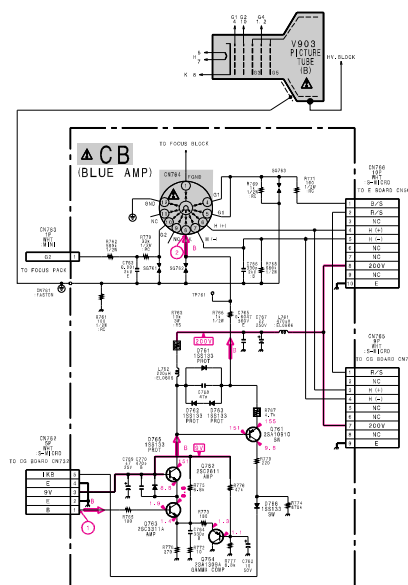
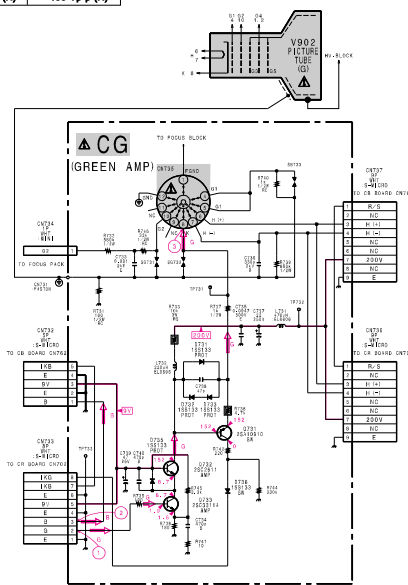
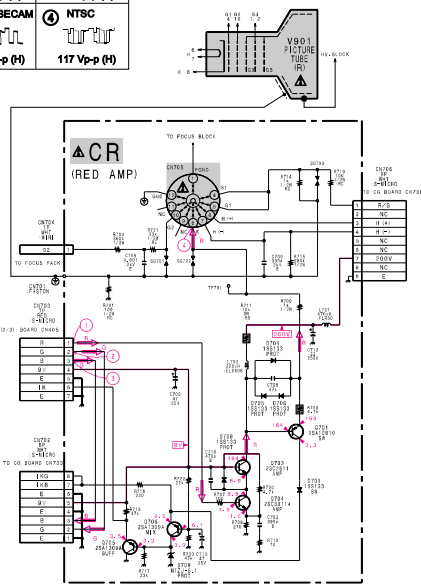
① PAL/SECAM	① NTSC
3.5 Vp-p (H)	4.4 Vp-p (H)
② PAL/SECAM	② NTSC
3.5 Vp-p (H)	3.8 Vp-p (H)
③ PAL/SECAM	③ NTSC
3.8 Vp-p (H)	3.8 Vp-p (H)
④ PAL/SECAM	④ NTSC
94.0 Vp-p (H)	117 Vp-p (H)

• CG BOARD WAVEFORMS

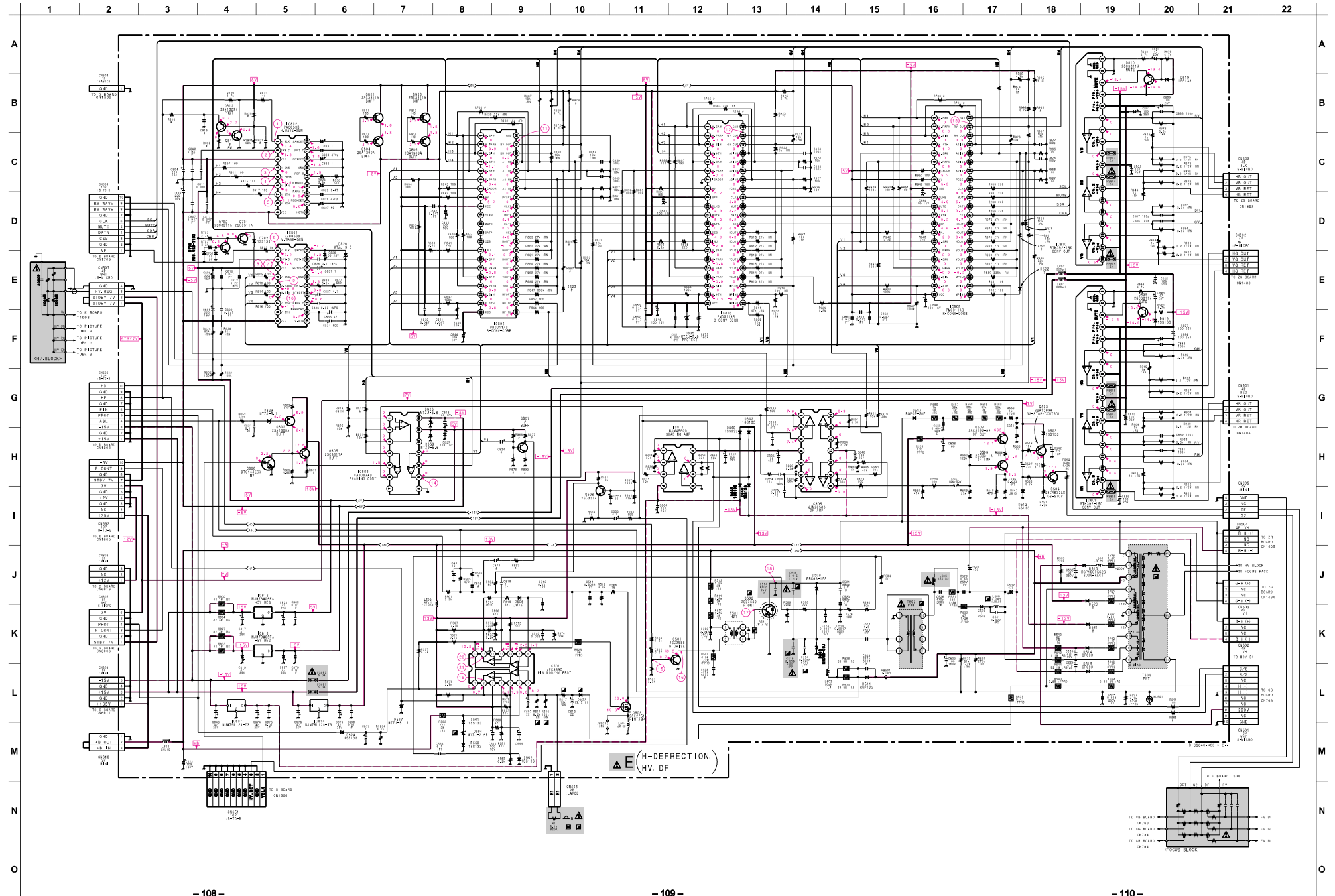
① PAL/SECAM	① NTSC
3.5 Vp-p (H)	3.6 Vp-p (H)
② PAL/SECAM	② NTSC
3.5 Vp-p (H)	3.8 Vp-p (H)
③ PAL/SECAM	③ NTSC
128 Vp-p (H)	139 Vp-p (H)

• CB BOARD WAVEFORMS

① PAL/SECAM	① NTSC
3.5 Vp-p (H)	3.7 Vp-p (H)
② PAL/SECAM	② NTSC
117 Vp-p (H)	125 Vp-p (H)



(7) Schematic Diagram of E Board



KP-41DS1U/PZ1B/PZ1D/PZ1E

RM-992



H-DEFLECTION,
HV, DF

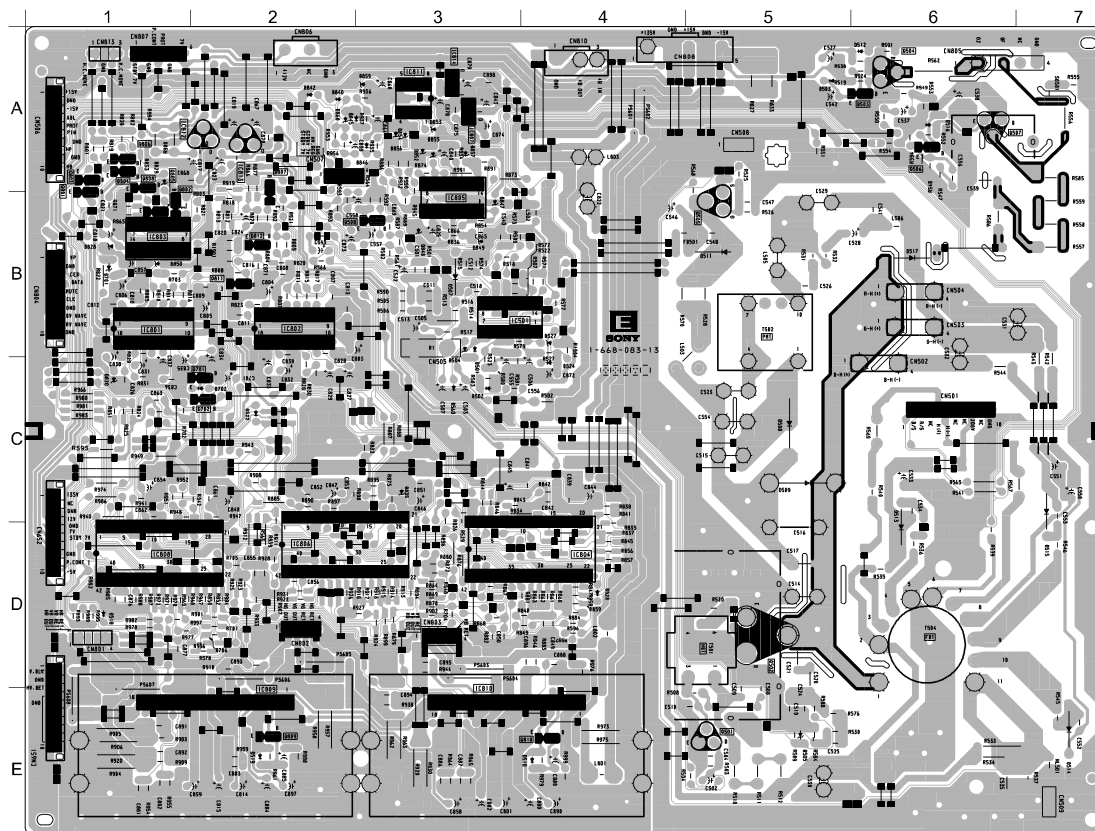
KP-41DS1U/PZ1B/PZ1D/PZ1E

RM-992

KP-41DS1U/PZ1B/PZ1D/PZ1E

RM-992

— E BOARD —

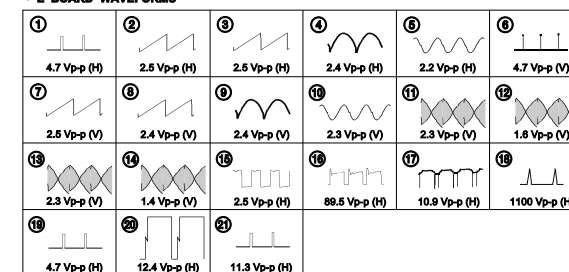


• E BOARD SEMICONDUCTOR LOCATION

IC	Q808 A-1
IC801 B-3	Q809 E-2
IC801 B-1	Q810 E-4
IC802 B-2	
IC803 B-1	
IC804 D-4	
IC805 B-3	
IC806 D-2	
IC807 A-3	
IC808 D-1	
IC808 E-2	
IC810 B-3	
IC811 A-3	
IC812 A-2	
IC813 A-2	
IC814 A-3	
TRANSISTOR	DIODE
Q601 E-6	D601 B-3
Q602 D-6	D602 C-3
Q603 A-6	D603 A-6
Q604 A-6	D604 B-3
Q605 B-6	D607 B-3
Q606 A-6	D608 C-6
Q607 A-6	D608 C-6
Q608 B-3	D610 E-4
Q701 C-2	D611 B-6
Q702 C-2	D612 A-6
Q801 A-1	D613 C-6
Q802 B-1	D614 E-7
Q803 A-1	D615 C-7
Q804 A-1	D617 B-6
Q805 B-1	D618 E-2
Q806 A-1	D624 C-4
	D627 B-4
	D690 C-3
	D701 B-1
	D702 C-2
	D820 C-1
	D828 B-1
	D829 A-1
	D835 C-3
	D840 A-3
	D842 A-3
	D845 A-3
	D846 A-3
	D890

*: Refer to Terminal name of semiconductor in silk screen printed circuit (see page 94)

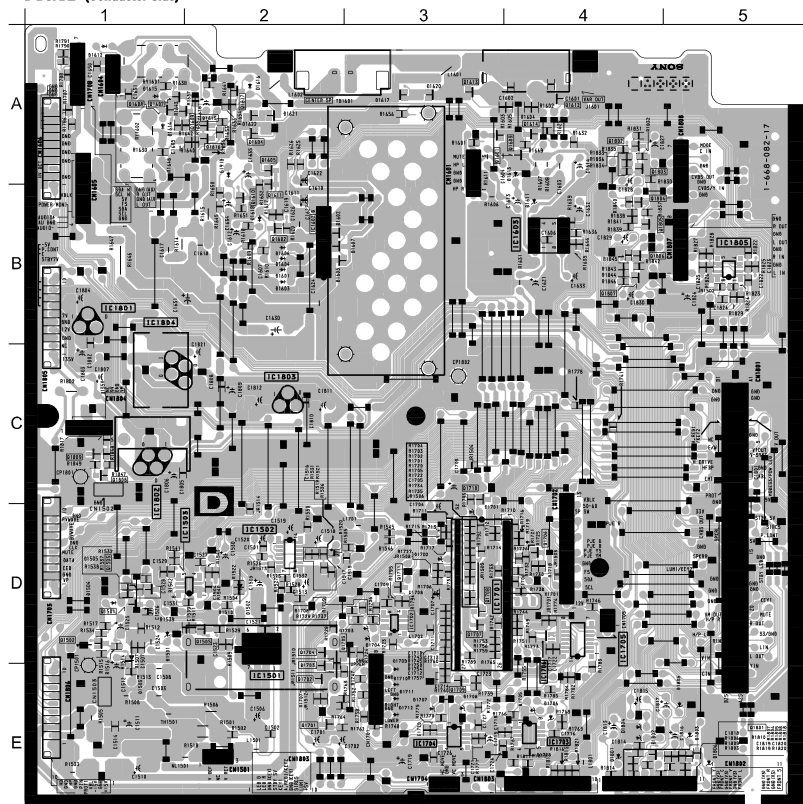
• E BOARD WAVEFORMS



KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

D AUDIO AMP, V-DEFLECTION
SENSOR AMP, SHADING AMP

— D BOARD (Conductor Side) —



— 114 —

KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

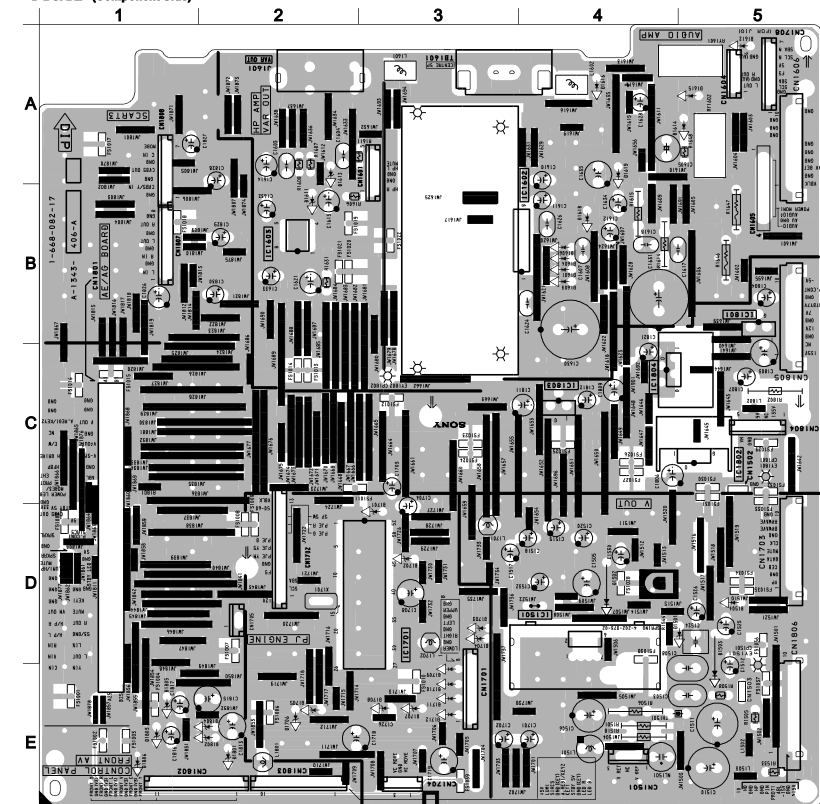
KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

• D BOARD SEMICONDUCTOR LOCATION

IC			
(Conductor Side)	(Component Side)		
IC1801 E-2	D-4	Q1801 E-4	
IC1802 D-2		Q1802 A-4	
IC1803 D-2		Q1803 A-4	
IC1802 B-2	B-4	Q1804 B-4	
IC1808 B-4	B-2	Q1807 B-4	
IC1701 D-3	D-3	Q1809 C-1	
IC1702 D-3		Q1809 C-1	
IC1703 E-4			
IC1704 E-3			
IC1708 D-4			
IC1801 B-1	B-5		
IC1802 C-1	C-5		
IC1803 C-2	C-4		
IC1804 C-1	C-4		
IC1805 B-6			
TRANSISTOR			
(Conductor Side)	(Component Side)		
Q1801 D-1	D-4	D1801 D-1	D-4
Q1802 D-1	D-4	D1802 D-2	D-4
Q1803 D-1	D-4	D1803 D-1	D-6
Q1805 D-2		D1804 D-1	D-6
Q1801 A-4	A-2	D1805 D-1	B-4
Q1802 B-2	B-2	D1801 B-2	B-4
Q1803 A-4	A-2	D1802 B-2	B-4
Q1804 A-2	A-4	D1803 B-2	B-4
Q1805 A-2	A-4	D1804 B-2	B-4
Q1806 A-1	A-4	D1805 B-2	B-4
Q1807 A-1	A-4	D1806 B-2	B-4
Q1808 A-1	A-4	D1807 B-2	B-4
Q1809 A-2	A-4	D1808 B-2	B-4
Q1810 B-2	B-4	D1809 B-2	B-4
Q1811 B-2	B-4	D1810 B-2	B-4
Q1812 A-4	A-2	D1811 A-2	A-4
Q1813 A-3	A-2	D1812 A-2	A-4
Q1814 A-4	A-2	D1813 A-2	D-3
Q1815 A-2	A-2	D1814 D-3	D-3
Q1816 A-2	A-2	D1815 E-2	E-2
Q1817 A-2	A-2	D1816 E-2	E-2
Q1701 E-2	E-3	D1817 E-3	E-3
Q1702 E-2	E-3	D1818 E-3	E-3
Q1703 E-2	E-3	D1819 E-3	E-3
Q1704 D-2	D-3	D1820 E-3	E-3
Q1705 D-2	D-3	D1821 E-3	E-3
Q1706 D-3	D-3	D1822 A-2	D-3
Q1707 D-3	D-3	D1823 D-3	D-3
Q1708 D-4	D-4	D1824 D-3	D-3
Q1709 E-3	E-3	D1825 E-2	E-2
Q1710 C-3	C-3	D1826 E-2	E-2
Q1711 D-3	D-3	D1827 E-2	E-2
		D1828 E-2	E-2
		D1829 E-2	E-2
		D1830 E-2	E-2
		D1831 E-2	E-2
		D1832 E-2	E-2
		D1833 E-2	E-2
		D1834 E-2	E-2
		D1835 E-2	E-2
		D1836 E-2	E-2
		D1837 E-2	E-2
		D1838 E-2	E-2
		D1839 E-2	E-2
		D1840 E-2	E-2
		D1841 E-2	E-2
		D1842 E-2	E-2
		D1843 E-2	E-2
		D1844 E-2	E-2
		D1845 E-2	E-2
		D1846 E-2	E-2
		D1847 E-2	E-2
		D1848 E-2	E-2
		D1849 E-2	E-2
		D1850 E-2	E-2
		D1851 E-2	E-2
		D1852 E-2	E-2
		D1853 E-2	E-2
		D1854 E-2	E-2
		D1855 E-2	E-2
		D1856 E-2	E-2
		D1857 E-2	E-2
		D1858 E-2	E-2
		D1859 E-2	E-2
		D1860 E-2	E-2
		D1861 E-2	E-2
		D1862 E-2	E-2
		D1863 E-2	E-2
		D1864 E-2	E-2
		D1865 E-2	E-2
		D1866 E-2	E-2
		D1867 E-2	E-2
		D1868 E-2	E-2
		D1869 E-2	E-2
		D1870 E-2	E-2
		D1871 E-2	E-2
		D1872 E-2	E-2
		D1873 E-2	E-2
		D1874 E-2	E-2
		D1875 E-2	E-2
		D1876 E-2	E-2
		D1877 E-2	E-2
		D1878 E-2	E-2
		D1879 E-2	E-2
		D1880 E-2	E-2
		D1881 E-2	E-2
		D1882 E-2	E-2
		D1883 E-2	E-2
		D1884 E-2	E-2
		D1885 E-2	E-2
		D1886 E-2	E-2
		D1887 E-2	E-2
		D1888 E-2	E-2
		D1889 E-2	E-2
		D1890 E-2	E-2
		D1891 E-2	E-2
		D1892 E-2	E-2
		D1893 E-2	E-2
		D1894 E-2	E-2
		D1895 E-2	E-2
		D1896 E-2	E-2
		D1897 E-2	E-2
		D1898 E-2	E-2
		D1899 E-2	E-2
		D1900 E-2	E-2

*: Refer to Terminal name of semiconductor in silk screen printed circuit (see page 84)

— D BOARD (Component Side) —



— 116 —

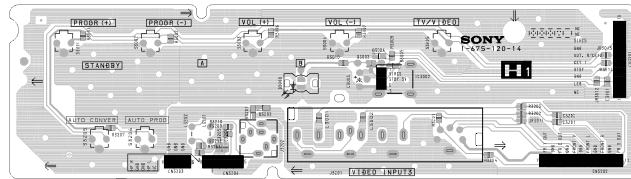
D BOARD WAVEFORMS

① 57.5 Vp-p (V)	② 0.5 Vp-p (V)	③ 0.5 Vp-p (V)	④ 4.7 Vp-p (H)	⑤ 4.7 Vp-p (V)
⑥ 3.6 Vp-p (8 MHz)	⑦ 4.7 Vp-p (V)	⑧ 4.7 Vp-p (H)	⑨ 1.3 Vp-p (V)	⑩ 1.3 Vp-p (V)

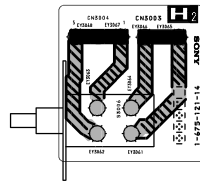
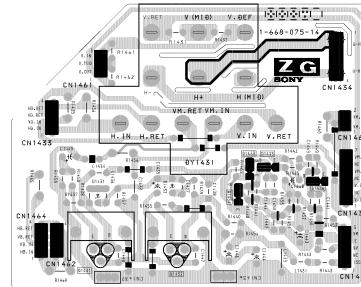
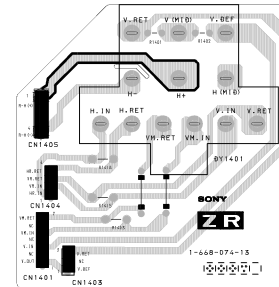
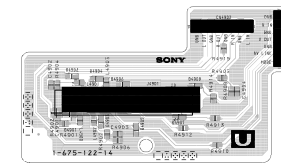
CONNECTOR: CENTER SP IN / SUBROUND OUT

Legend:
 ▲ D (AUDIO AMP, V-DEFLECTION, SENSOR AMP, SHADING AMP)

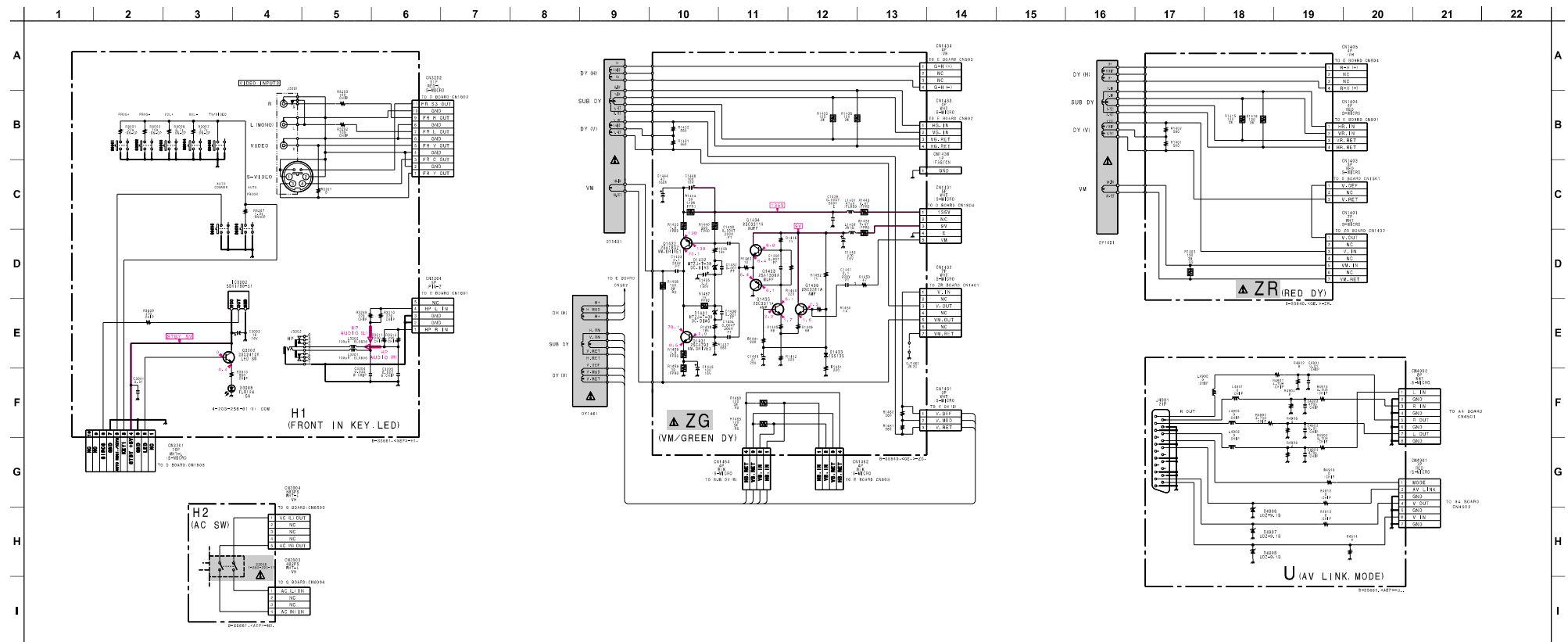
The schematic diagram illustrates the internal circuitry of the D BOARD, including various integrated circuits, resistors, capacitors, and connectors. It shows the signal flow from input connectors to output connectors, with specific components labeled for identification. The waveforms table provides a reference for the expected signal levels and frequencies at various points in the circuit.

H1 [FRONT IN KEY, LED]**H2** [AC SW]**ZG** [VM/GREEN DY]**ZR** [RED DY]**U** [AV LINK MODE]**(9) Schematic Diagram of H1, H2, ZG, ZR and U Boards****— H1 BOARD —****H1 BOARD**
Terminal name of semiconductors
in silk screen printed circuit (e)

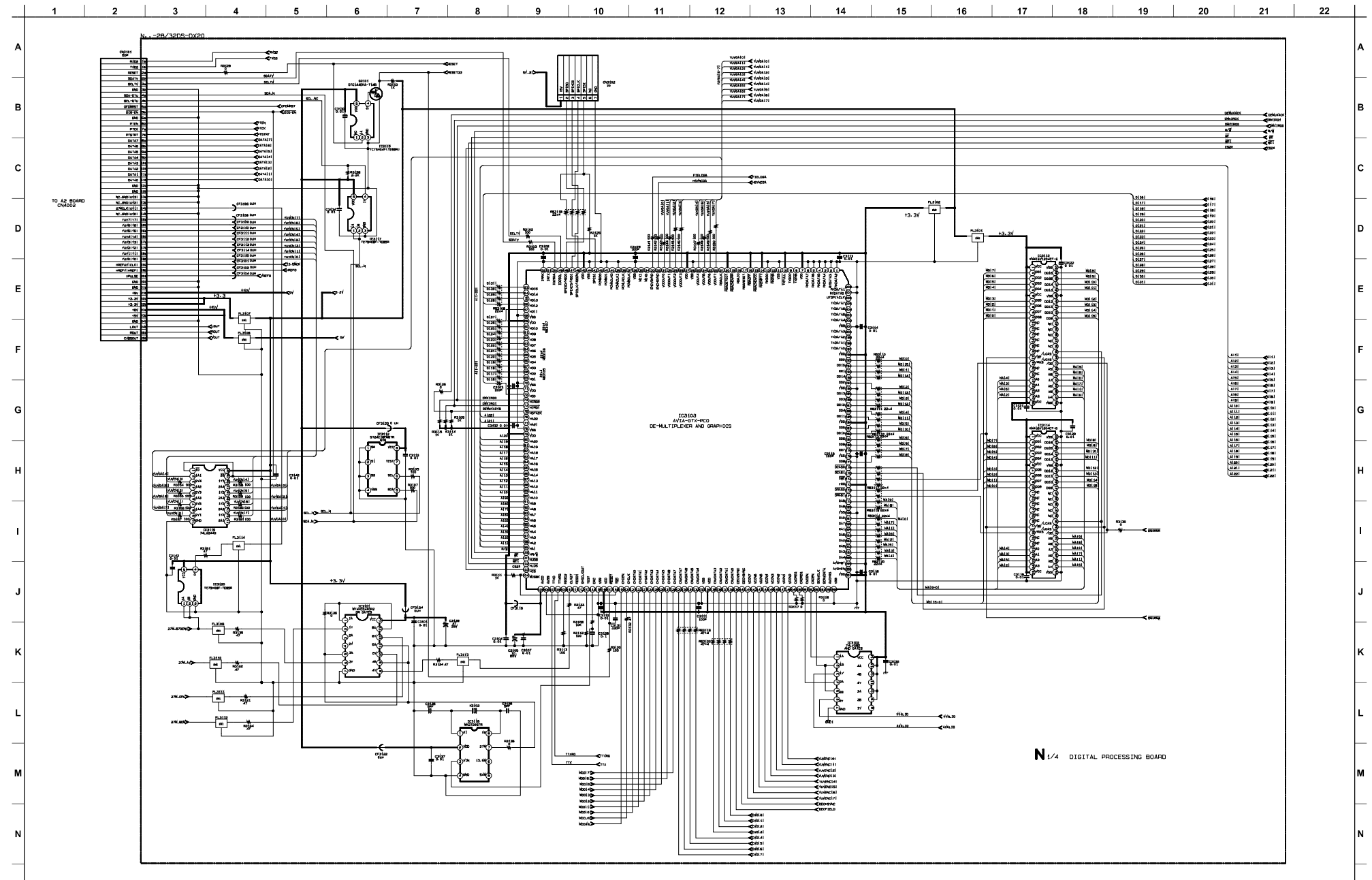
Ref.	*
Q3002	①

*: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 84)**— ZG BOARD —****— ZR BOARD —****— U BOARD —****U BOARD**
Terminal name of semiconductors
in silk screen printed circuit (e)

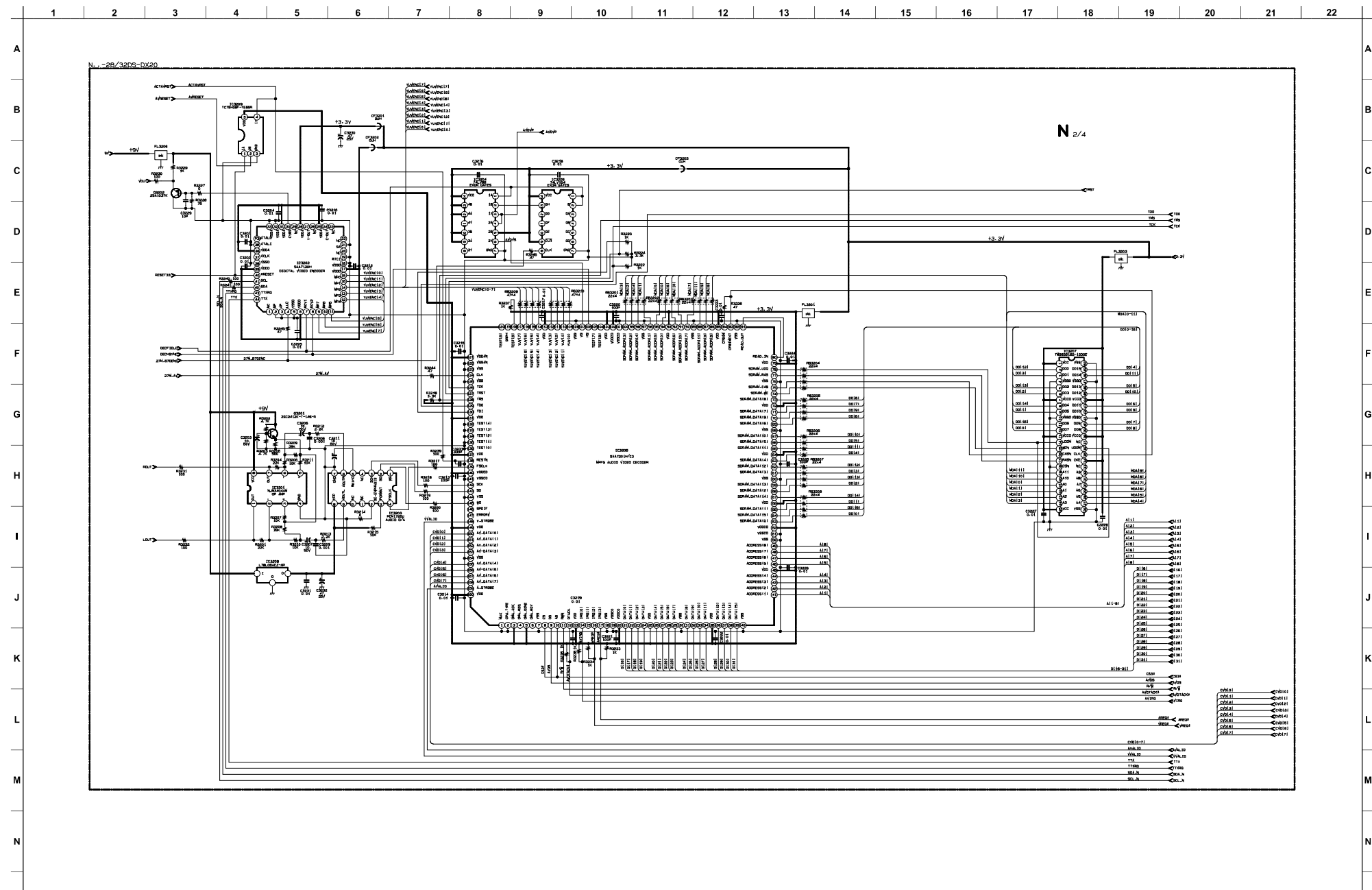
Ref.	*
D4008 - D4008	①

*: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 84)

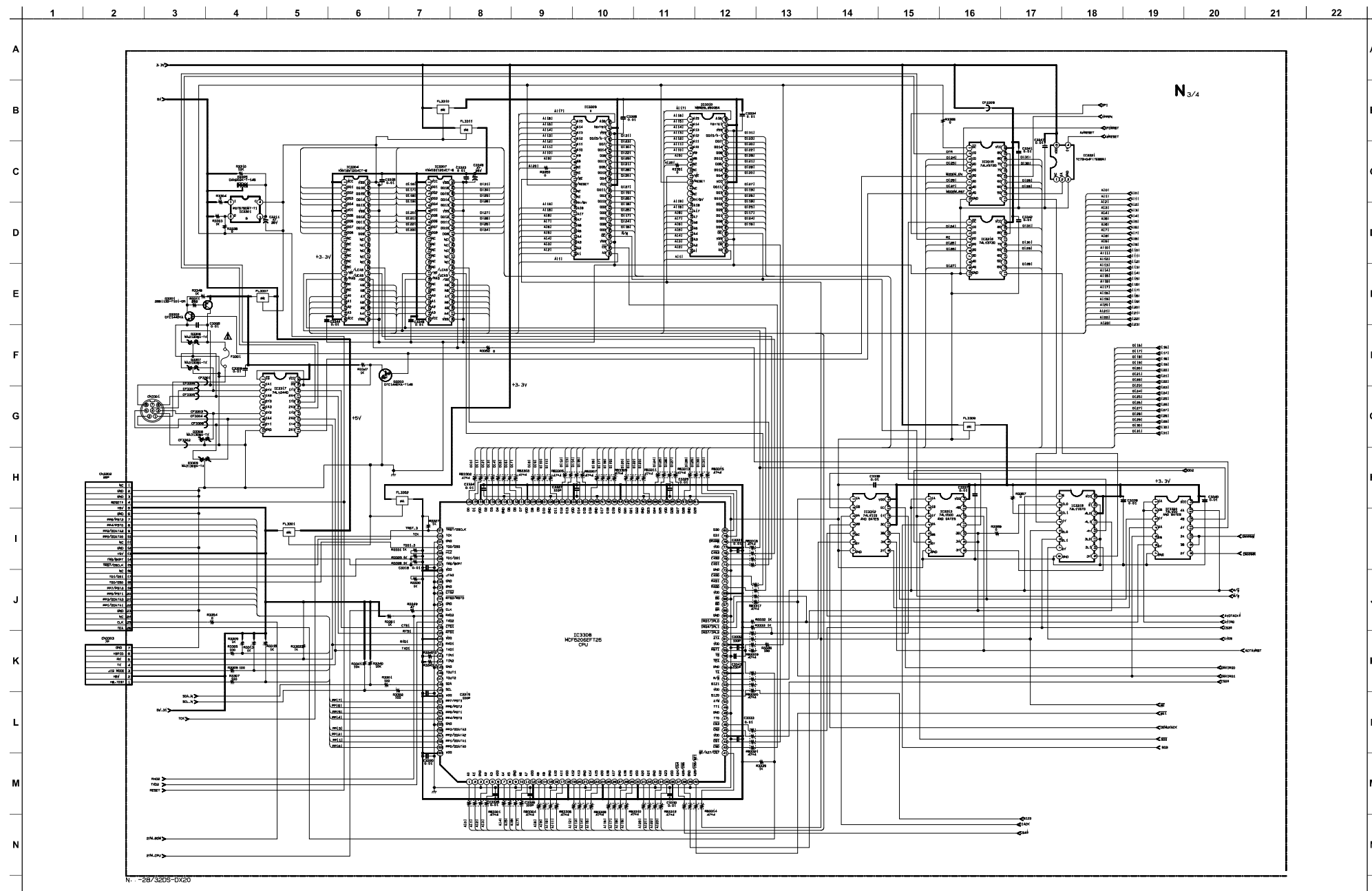
(10) Schematic Diagram of N (1/4) Board



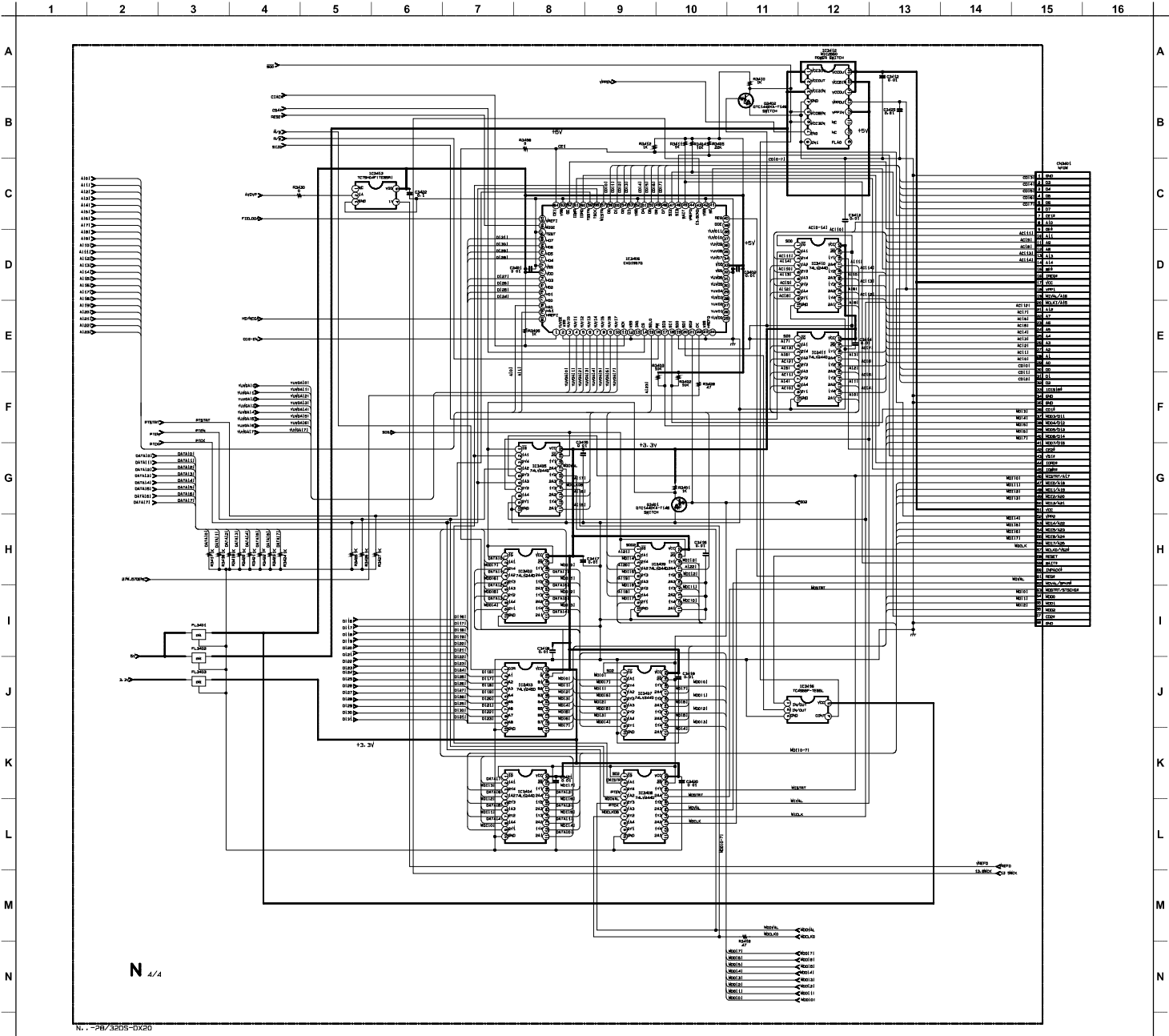
(11) Schematic Diagram of N (2/4) Board



(12) Schematic Diagram of N (3/4) Board



(13) Schematic Diagram of N (4/4) Board

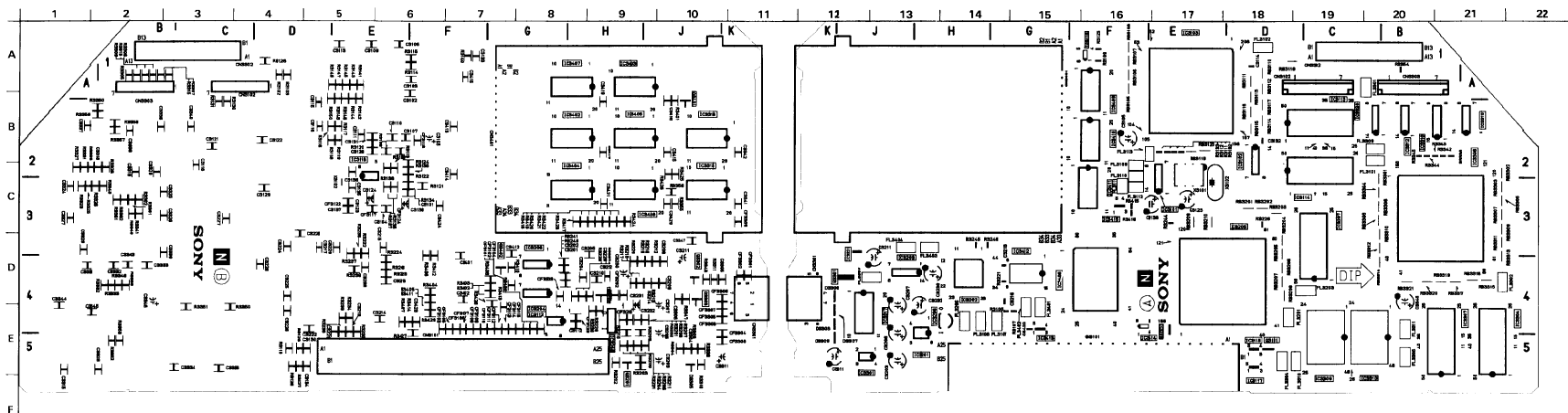


KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

N [DIGITAL PROCESSING]

— N BOARD (Conductor Side) —

— N BOARD (Component Side) —

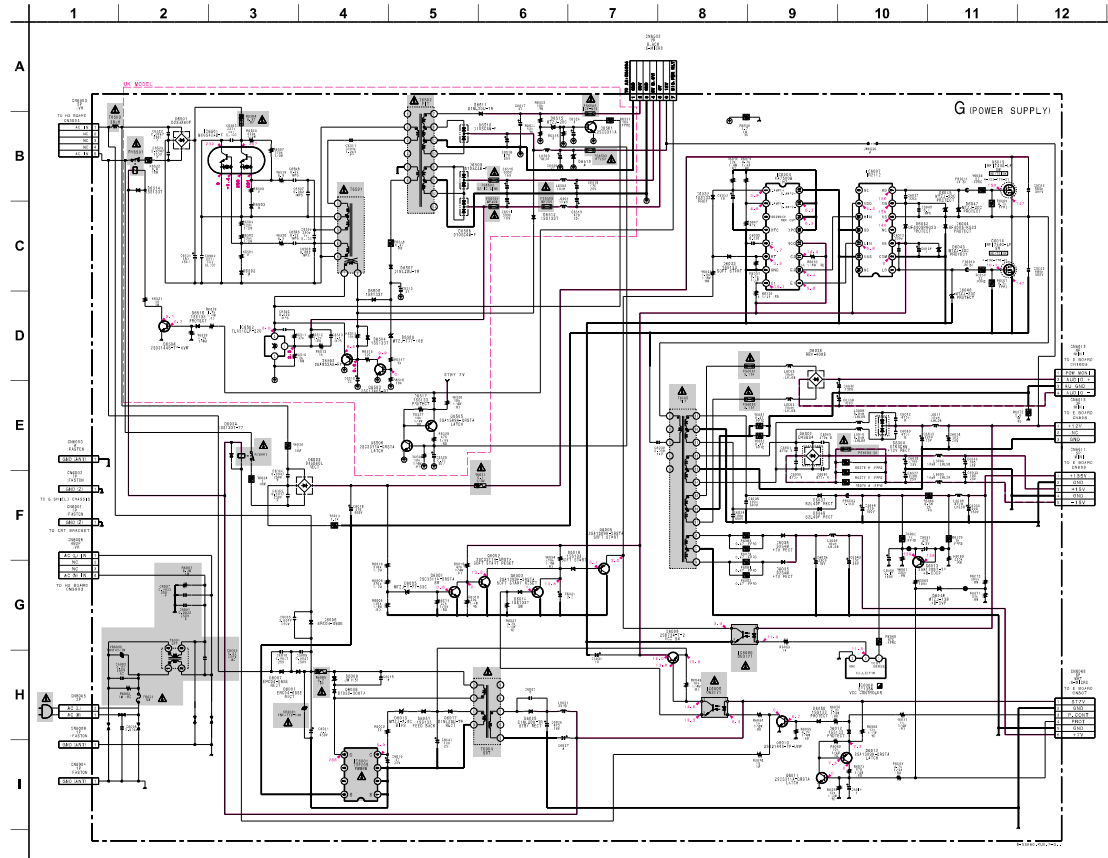


- **N BOARD SEMICONDUCTOR LOCATION**

IC		IC3405	A-9		
IC3101	C-10	IC3404	C-9		
IC3102	B-10	IC3405	B-9		
IC3103	A-18	IC3406	D-16		
IC3112	E-8	IC3407	B-17		
IC3113	B-8	IC3408	C-17		
IC3114	A-18	IC3411	C-17		
IC3116	A-18	IC3412	D-16		
IC3117	B-18	IC3413	E-16		
IC3118	E-8				
IC3201	C-4	TRANSISTOR			
IC3202	C-4				
IC3203	D-14				
IC3204	D-8				
IC3205	D-8				
IC3208	D-8				
IC3209	D-20				
IC3210	E-9				
IC3801	E-13			Q3101	B-17
IC3802	E-13			Q3201	E-8
IC3803	E-13	Q3202	D-10		
IC3807	E-22	Q3301	D-13		
IC3808	E-22	Q3402	A-10		
IC3809	E-2	Q3403	D-10		
IC3810	E-2	Q3402	D-7		
IC3812	B-22	DIODE			
IC3813	E-22				
IC3816	E-22				
IC3817	B-22				
IC3818	E-22				
IC3819	E-22				
IC3820	E-22				
IC3821	E-22				
IC3822	E-22				
IC3823	E-22				
IC3824	B-8	DS305	E-10		
IC3825	B-8	DS306	D-13		
IC3826	B-8	DS307	D-13		
IC3827	B-8	DS308	E-13		
IC3828	B-8	DS309	E-13		
IC3829	B-8	DS310	E-13		
IC3830	B-8				
IC3831	B-8				
IC3832	B-8				
IC3833	B-8				
IC3834	B-8				
IC3835	B-8				
IC3836	B-8				
IC3837	B-8				
IC3838	B-8				
IC3839	B-8				
IC3840	B-8				

KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

(14) Schematic Diagram of G Board

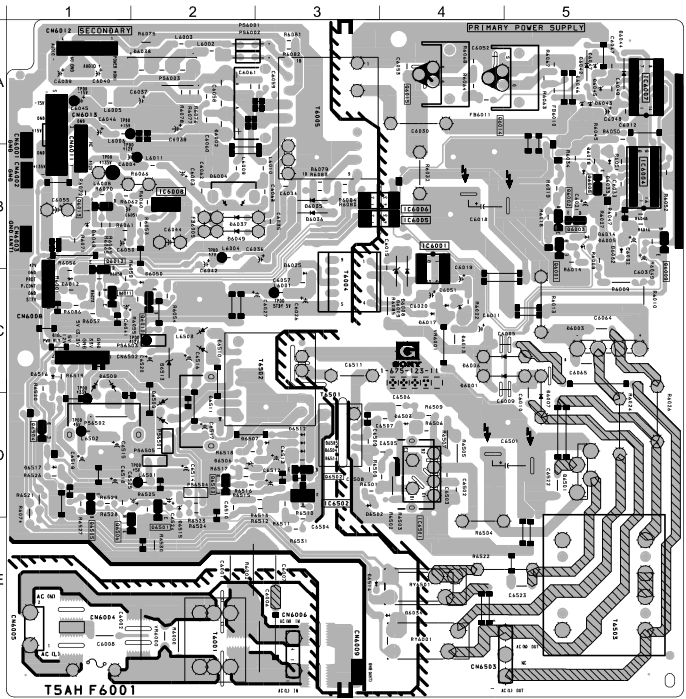


KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

G [POWER SUPPLY]

KP-41DS1U/PZ1B/PZ1D/PZ1E
RM-892

— G BOARD —

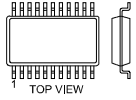


• G BOARD SEMICONDUCTOR LOCATION

IC	
IC8001	B-4
IC8004	B-5
IC8005	B-4
IC8006	B-4
IC8007	A-5
IC8008	B-2
IC8501	D-4
IC8502	D-3
TRANSISTOR	
Q8001	B-5
Q8002	B-5
Q8003	B-5
Q8004	B-5
Q8005	B-5
Q8006	C-2
Q8011	C-1
Q8012	B-1
Q8013	B-1
Q8014	A-4
Q8015	A-4
Q8016	D-2
Q8501	D-3
Q8502	D-2
Q8503	D-1
Q8504	D-1
Q8505	D-1
Q8506	E-1
DIODE	
D8001	C-4
D8002	A-2
D8003	C-5
D8004	B-5
D8005	B-5
D8006	C-4
D8007	D-6
D8008	C-4
D8012	C-1
D8013	C-4
D8014	B-5
D8017	C-4
D8018	B-5
D8025	C-5
D8032	B-5
D8033	B-5
D8034	B-4
D8035	B-3
D8036	B-3
D8037	B-2
D8038	A-2
D8042	A-5
D8043	A-5
D8044	A-5
D8045	A-5
D8046	A-5
D8047	A-5
D8048	B-1
D8049	B-2
D8050	C-2
D8051	C-4
D8051	D-6
D8054	D-8
D8055	D-8
D8056	D-2
D8057	C-1
D8058	D-2
D8059	C-1
D8060	C-2
D8061	D-2
D8062	D-3
D8064	B-3
D8065	D-2
D8066	C-1
D8067	D-1

7-5. SEMICONDUCTORS

BA7606F-T2
CXA1315M
CXA1875AM-T4
MC14046BF-12
MC14053BF
MC74HC163AFEL
MC74HC4538AFEL
TC74HC4040AF
SN74HC4040ANS



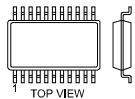
16pin SOP

CA0007AD
IR2112
NJM2058D
μPC339C



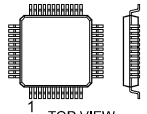
14pin DIP

CA0007AM
MC14066BF
MC74HC00AFEL
MC74HC74AFEL



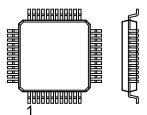
14pin SOP

CXA2040AQ-T4



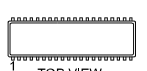
32pin QFP

SDA30C263-GEG



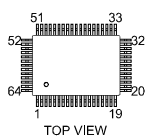
80pin QFP

CXA2089S

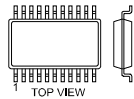


48pin DIP

CXA2076Q-TL

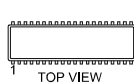


LM358D
LM358DR
M24C32-MN6T
M24C64-WMN6T
NJM2234M
NJM4558M-T2
NJM4558M-TE2
μPC4558G2



8pin SOP

LM393P
NJM4560D
RC4560D
TDA2822M
TDA7264
TOP209P
μPC393C



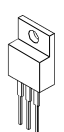
8pin DIP

TDA4685T-T
KA7500B

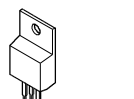


16pin DIP

LM2940CT-5.0
L7812CV
NJM78M05FA
PQ09RF2
TA7812S
TYA7809CTV
μPC2405HF



MSP3410D-P8-B4-T-ND
SDA527CP-GEG



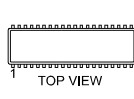
68pin QFJ

NJM79M05FA



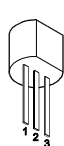
24pin SOP

PA0053B



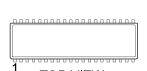
18pin DIP

NJM78L12A-T3
NJM79L12A-T3



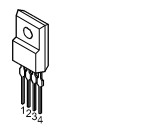
32pin SOP

PM0011AS

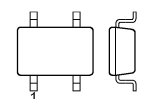


42pin DIP

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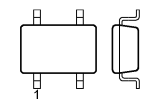


PST593C-MMP-4P



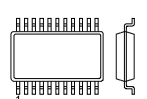
4pin Chip

PST9143NL



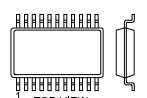
5pin Chip

SAA4981T-T



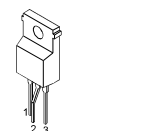
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SDA9189XGEGA132

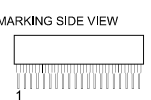


32pin SOP

SE135N-LF12
SE-135N

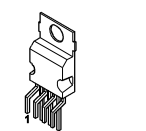


STK392-150

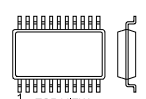


18pin SIP

STV9379

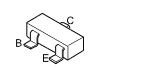


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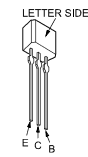
20pin SOP

DTA144EKA-T146
DTC114EK
DTC114EKA-T146
DTC143TKA-T146
DTC144EKA
DTC144EKA-T146
2SA1037AK-T146-QR
2SA1037K-T146-QR
2SA1162G
2SC1623-L5L6
2SC2412K-T146-QR



24pin SOP

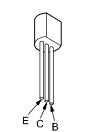
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DTC144ESA-TP
2SA1175-HFE
2SA1309A-QRSTA
2SC2785-HFE
2SC3311A-QRSTA



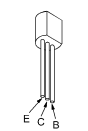
IRF1744G-LF
2SA1837
2SC4793
2SC5022-02



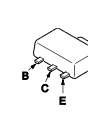
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2SA1091-TPE2



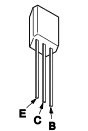
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2SA1213Y-TE12L



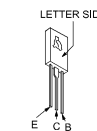
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2SA1524-TP
2SD2144S-UVV



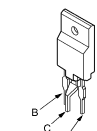
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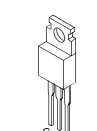
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2SC2688-LK



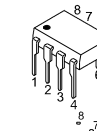
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2SD2539 (LBSONY-1)



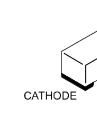
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BAS16



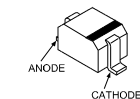
BAS216



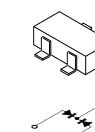
DAP202K



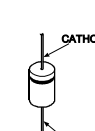
DTZ9.1
DTZ33B
MA1111-TX
UDZ-TE-17-5.6B
UDZ-TE-17-6.8B
UDZ-TE-17-9.1B
1SS355
1SS355TE-17



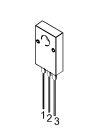
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DAN202K-T-146



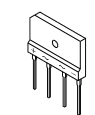
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D2S4M



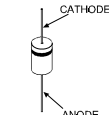
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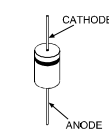
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D4SB84-F
D6SB80L
RBA-406B



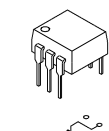
ERC04-06S
ERC06-15S
ERD29-08J
1SS133T-72
1SS133T-77



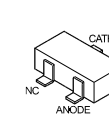
EL1Z
EL1Z-V1
GP08D
GP08DPKG23
MTZJ-T-77-9.1A
RGP02-17EL-6433
RGP02-17PKG23
RGP02-20EL-6394
RGP10GPKG23
S2L40F
UF4005PKG23



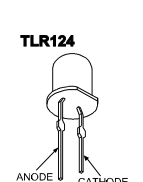
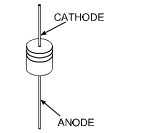
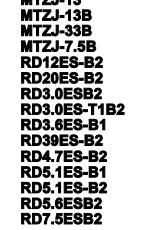
MA3030-H (TX)



MA3240-TX



MTZJ-T-77-12B
MTZJ-T-77-13
MTZJ-T-77-13B
MTZJ-T-77-20C
MTZJ-T-77-33
MTZJ-T-77-3.6
MTZJ-T-77-3.9
MTZJ-T-77-5.1
MTZJ-T-77-5.1B
MTZJ-T-77-5.6
MTZJ-T-77-5.6B
MTZJ-T-77-7.5B
MTZJ-T-77-7.5C
MTZJ-T-77-9.1B
MTZJ-13



SECTION 8 EXPLODED VIEWS

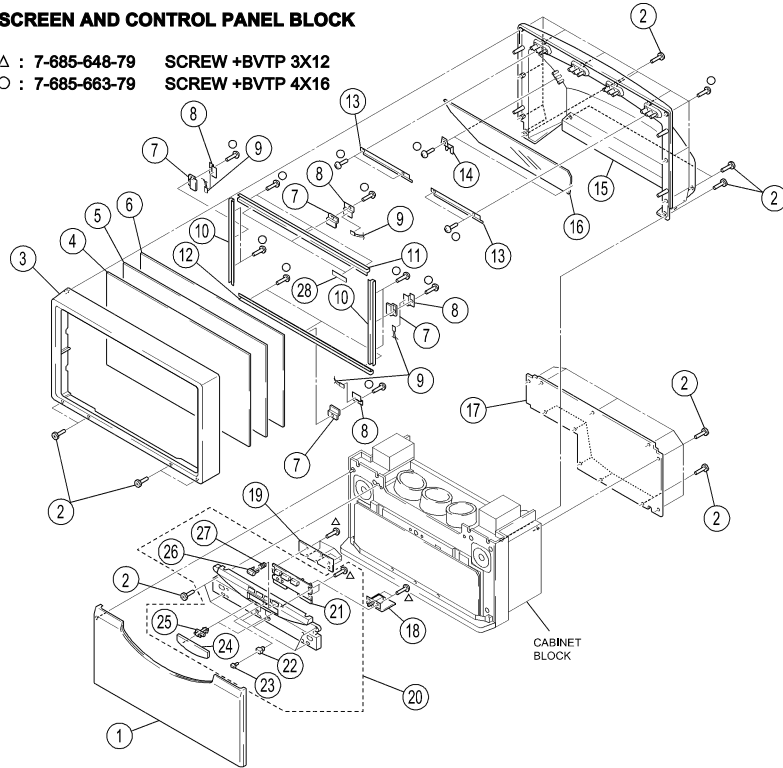
• Items with no part number and no description are not stocked because they are seldom required for routine service.
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• Items marked *** are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

8-1. SCREEN AND CONTROL PANEL BLOCK

Δ : 7-685-648-79 SCREW +BVTP 3X12
○ : 7-685-663-79 SCREW +BVTP 4X16

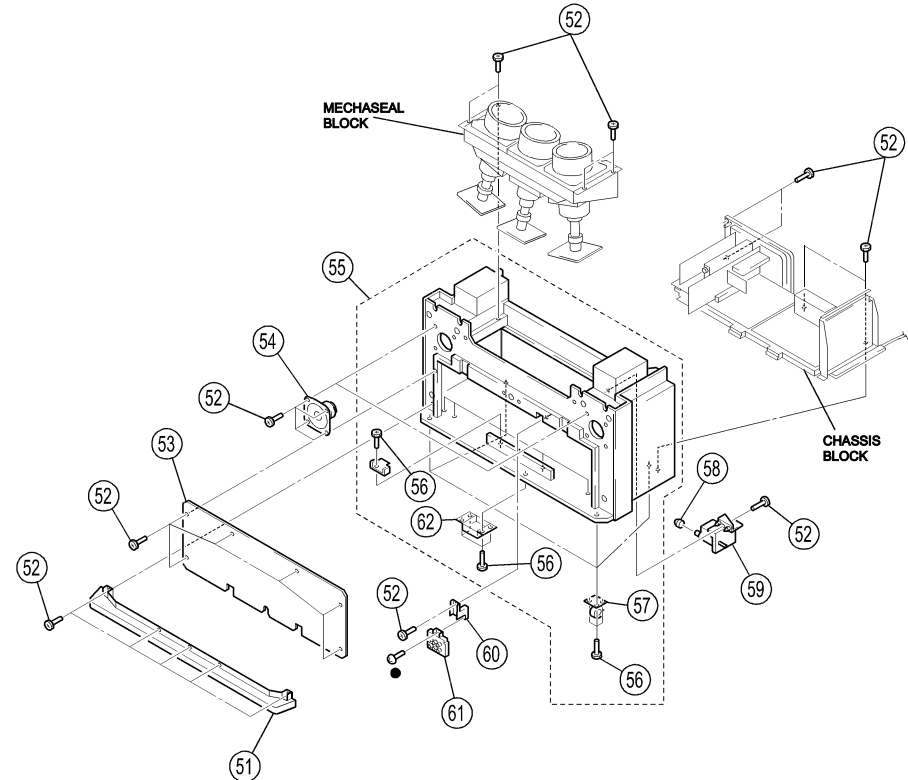


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4200-549-1	GRILLE ASSY, SPEAKER		16	4-205-153-01	MIRROR (41W)	
2	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		17	*4-205-138-01	COVER, REAR	
3	X-4200-547-1	BEZNET ASSY		18	*A-1646-201-A	H2 BOARD, COMPLETE	
4	4-070-825-11	SCREEN (41W), CONTRAST		19	*A-1646-200-A	H1 BOARD, COMPLETE	
5	4-070-824-11	PLATE(L), DIFFUSION		20	X-4200-510-1	PANEL ASSY, CONTROL (41DS1U)	21-27
6	4-070-826-11	PLATE(F), DIFFUSION		20	X-4200-520-1	PANEL ASSY, CONTROL (EXCEPT 41DS1U)	
7	*4-205-155-01	COVER, SENSOR		21	4-049-651-21	BUTTON, MULTI	
8	*4-063-173-01	HOLDER, SENSOR		22	4-045-250-21	DAMPER	
9	1-528-864-11	BATTERY, SOLAR		23	4-042-192-01	CATCHER, PUSH	
10	*4-205-154-21	HOLDER, SCREEN		24	4-049-649-11	DOOR, CONTROL (EXCEPT 41DS1U)	
11	*4-205-154-01	HOLDER, SCREEN		24	4-049-649-51	DOOR, CONTROL (41DS1U)	
12	*4-205-154-11	HOLDER, SCREEN		25	3-703-035-11	SHAFT, LID	
13	4-064-042-01	HOLDER, MIRROR		26	4-049-647-01	BUTTON, POWER	
14	*4-038-863-11	HOLDER (S), MIRROR		27	4-205-135-01	SPRING, COMPRESSION	
15	*4-049-645-02	COVER, MIRROR		28	*4-203-553-01	SHEET, BLOTTING	

8-2. CABINET BLOCK

● : 7-685-663-71 SCREW +BVTP 4X16

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

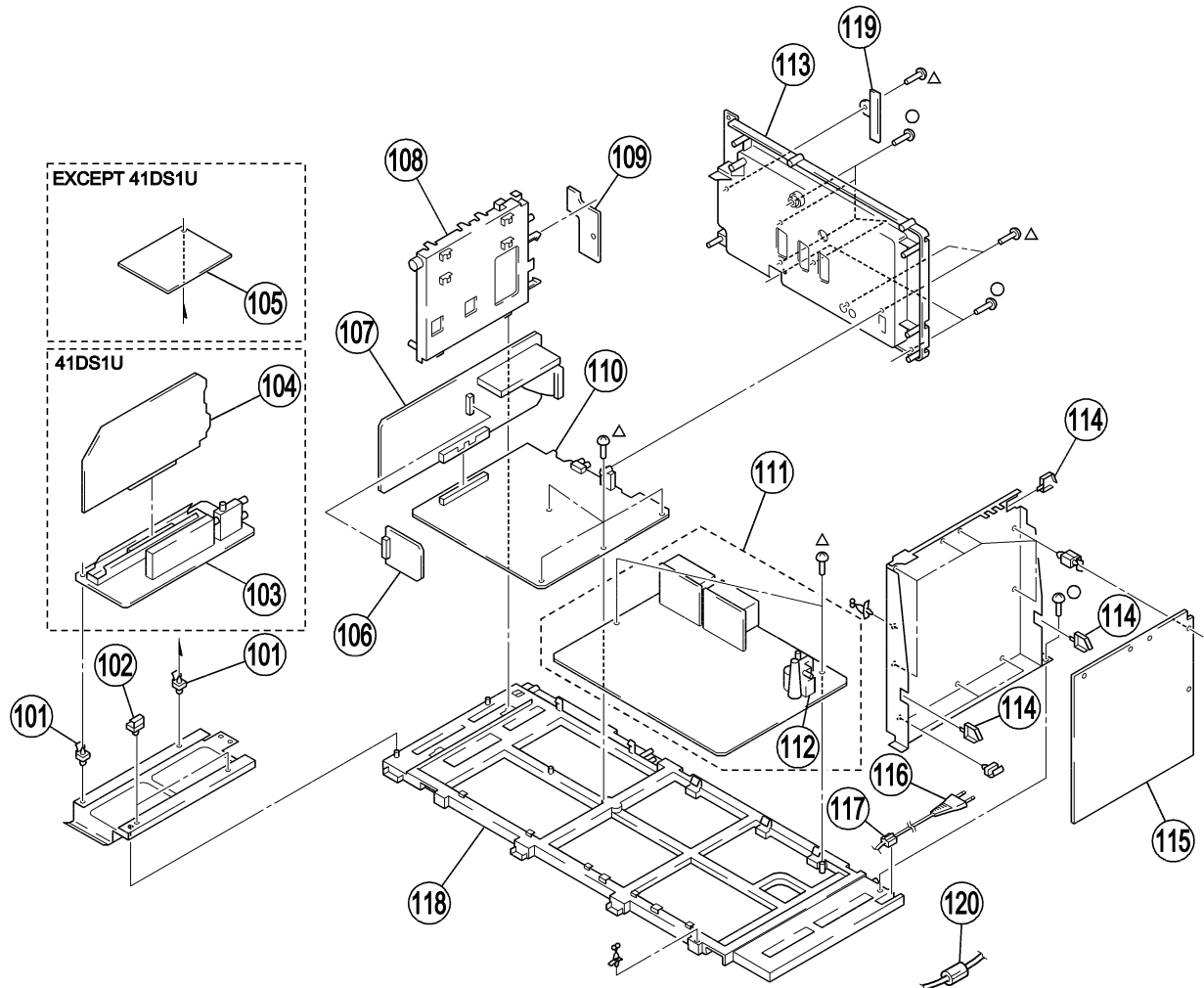


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	*4-205-250-01	COVER, BOTTOM		58	4-373-137-01	CAP (Z), RUBBER	
52	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD		59	Δ8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
53	*4-205-139-01	COVER, FRONT		60	*4-054-825-01	BRACKET, FOCUS PACK	
54	1-529-524-11	SPEAKER (12 CM)		61	Δ1-223-925-31	RESISTOR ASSY (HIGH-VOLTAGE)	
55	X-4200-548-1	CABINET ASSY	56, 57, 62			(FOCUS PACK)	
56	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		62	4-205-159-01	SUPPORT, FOOT	
57	4-040-755-01	CASTER (DIA. 30)					

8-3. CHASSIS BLOCK

- △ : 7-685-648-79 SCREW +BVTP 3X12
 ○ : 7-685-663-79 SCREW +BVTP 4X16

The components identified by shading and mark △ are critical for safety.
 Replace only with part number specified.



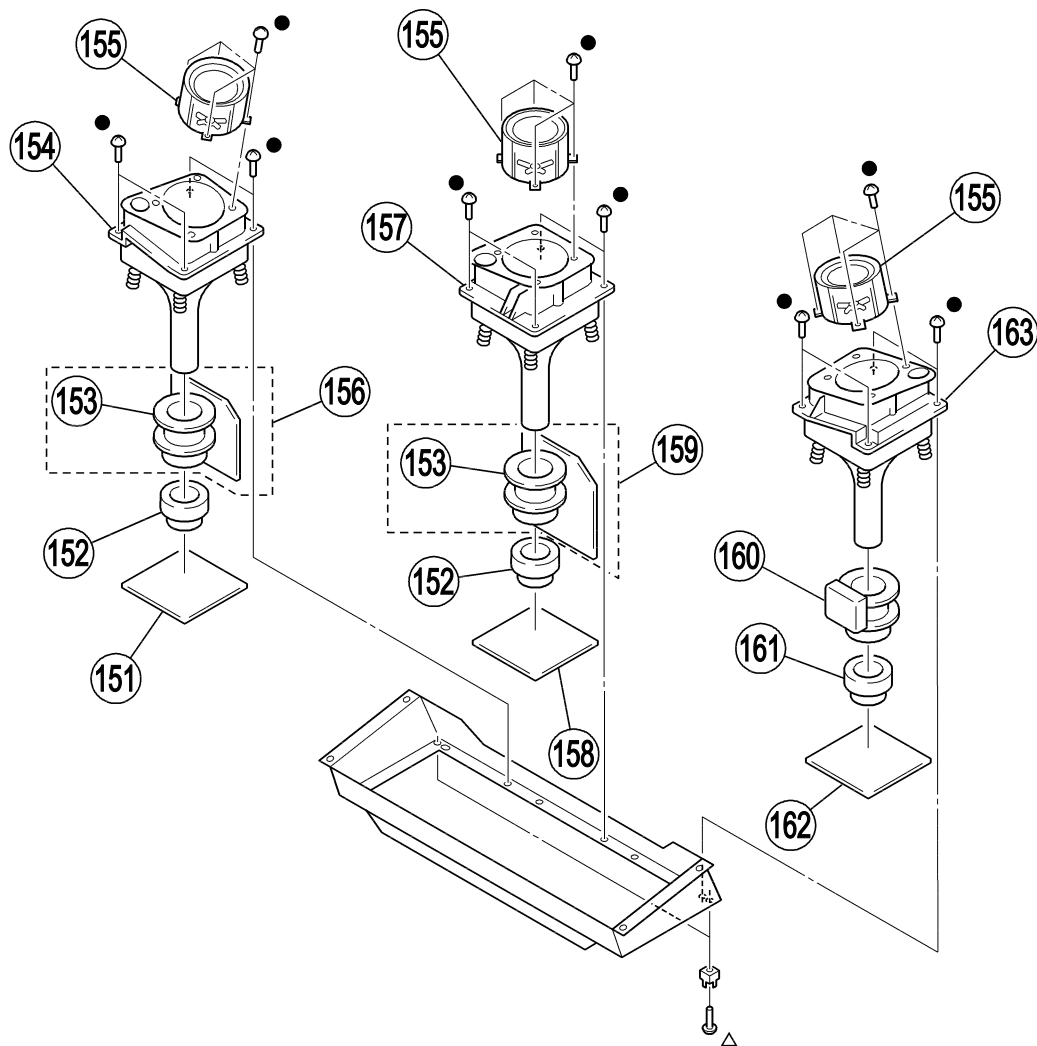
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	* 3-703-141-00	HOLDER, PRINTED CIRCUIT BOARD		112	△ 1-453-331-11	FBT ASSY NX-4012//M	
102	* 3-659-682-11	HOLDER, PRINTED CIRCUIT BOARD		113	4-205-136-01	BOARD, TERMINAL (41DS1U)	
103	* A-1631-046-A	A2 BOARD, COMPLETE (41DS1U)		113	4-205-136-11	BOARD, TERMINAL (EXCEPT 41DS1U)	
104	* A-1632-065-A	N BOARD, COMPLETE (41DS1U)		114	* 4-316-015-02	HOLDER, WIRE	
105	* A-1631-062-A	A4 BOARD, COMPLETE (EXCEPT 41DS1U)		115	* A-1636-047-A	G BOARD, COMPLETE (41DS1U)	
106	* A-1631-061-A	A3 BOARD, COMPLETE		115	* A-1636-048-A	G BOARD, COMPLETE (EXCEPT 41DS1U)	
107	* A-1632-862-A	A BOARD, COMPLETE (41DS1U)		116	△ 1-765-286-11	CORD, POWER (EXCEPT 41DS1U)	
107	* A-1632-863-A	A BOARD, COMPLETE (EXCEPT 41DS1U)		116	△ 1-776-860-11	POWER CORD, FILTER (UK) (41DS1U)	
108	* 4-062-536-02	BRACKET (A)		117	4-389-201-11	HOLDER, AC CORD	
109	* A-1648-028-A	U BOARD, COMPLETE		118	* 4-062-537-03	BRACKET, MAIN	
110	* A-1640-375-A	D BOARD, COMPLETE		119	4-204-656-11	COVER, PCMCIA	
111	* A-1640-374-A	E BOARD, COMPLETE	112	120	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)	

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8-4. MECHASEAL BLOCK

- △ : 7-685-648-79 SCREW +BVTP 3X12
● : 7-685-663-71 SCREW +BVTP 4X16

The components identified by shading and mark △ are critical for safety.
Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151	* A-1638-133-A	CR BOARD, COMPLETE		158	* A-1638-134-A	CG BOARD, COMPLETE	
152	△ 1-452-790-11	NECK ASSY		159	* A-1652-068-A	ZG BOARD, COMPLETE	153
153	△ 1-451-455-11	DEFLECTION YOKE		160	△ 1-451-455-41	DEFLECTION YOKE	
154	△ A-1678-183-A	MECHASEAL ASSY (R)		161	△ 1-452-909-31	MAGNET ASSY, 4 POLE	
155	4-050-891-01	LENS (DELTA 67)		162	* A-1638-135-A	CB BOARD, COMPLETE	
156	* A-1628-002-A	ZR BOARD, COMPLETE	153	163	△ A-1678-185-A	MECHASEAL ASSY (B)	
157	△ A-1678-184-A	MECHASEAL ASSY (G)					



SECTION 9 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

• The components identified by \boxtimes in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

• CAPACITORS
PF : μ F

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1628-002-A ZR BOARD, COMPLETE *****				C4023	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
				C4024	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
				C4025	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
				C4026	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
				C4027	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
<CONNECTOR>				C4028	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
CN1401	* 1-564-510-11	PLUG, CONNECTOR 7P		C4029	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
CN1403	* 1-564-506-11	PLUG, CONNECTOR 3P		C4030	1-126-933-11	ELECT 100 μ F	20% 16V
CN1404	* 1-564-507-11	PLUG, CONNECTOR 4P		C4031	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
CN1405	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P		C4032	1-126-964-11	ELECT 10 μ F	20% 50V
<CONNECTOR>				C4033	1-126-933-11	ELECT 100 μ F	20% 16V
				C4034	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
				C4035	1-126-964-11	ELECT 10 μ F	20% 50V
DY1401	Δ 1-451-455-11	DEFLECTION YOKE (R)		C4036	1-126-964-11	ELECT 10 μ F	20% 50V
<RESISTOR>				C4037	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
R1401	1-249-414-11	CARBON 560	5% 1/4W	C4038	1-126-964-11	ELECT 10 μ F	20% 50V
R1402	1-249-414-11	CARBON 560	5% 1/4W	C4039	1-126-964-11	ELECT 10 μ F	20% 50V
R1403	1-215-912-11	METAL OXIDE 150	5% 3W F	C4040	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
R1415	1-216-475-11	METAL OXIDE 120	5% 3W F	C4041	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
R1418	1-216-475-11	METAL OXIDE 120	5% 3W F	C4042	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
*****				C4043	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
* A-1631-046-AA2 BOARD, COMPLETE (KP-41DS1U) *****				C4044	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
4-382-854-11 SCREW (M3X10), P, SW (+)				C4045	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
<CAPACITOR>				C4046	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4001	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C4047	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4002	1-126-933-11	ELECT 100 μ F	20% 16V	C4048	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4003	1-126-933-11	ELECT 100 μ F	20% 16V	C4049	1-104-760-11	CERAMIC CHIP 0.047 μ F	10% 50V
C4004	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V	C4050	1-104-760-11	CERAMIC CHIP 0.047 μ F	10% 50V
C4005	1-126-933-11	ELECT 100 μ F	20% 16V	C4051	1-104-760-11	CERAMIC CHIP 0.047 μ F	10% 50V
C4006	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V	C4052	1-104-760-11	CERAMIC CHIP 0.047 μ F	10% 50V
C4007	1-126-933-11	ELECT 100 μ F	20% 16V	C4053	1-104-760-11	CERAMIC CHIP 0.047 μ F	10% 50V
C4008	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V	C4054	1-104-760-11	CERAMIC CHIP 0.047 μ F	10% 50V
C4009	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C4055	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4010	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V	C4056	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4011	1-126-968-11	ELECT 100 μ F	20% 50V	C4057	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4012	1-163-222-11	CERAMIC CHIP 5pF	0.25pF 50V	C4058	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4014	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V	C4059	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4015	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V	C4060	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4016	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V	C4061	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4018	1-126-933-11	ELECT 100 μ F	20% 16V	C4062	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V
C4019	1-126-933-11	ELECT 100 μ F	20% 16V	C4063	1-126-959-11	ELECT 0.47 μ F	20% 50V
C4020	1-126-933-11	ELECT 100 μ F	20% 16V	C4064	1-126-964-11	ELECT 10 μ F	20% 50V
C4021	1-126-933-11	ELECT 100 μ F	20% 16V	C4065	1-126-959-11	ELECT 0.47 μ F	20% 50V
C4022	1-163-038-00	CERAMIC CHIP 0.1 μ F	25V	C4066	1-126-959-11	ELECT 0.47 μ F	20% 50V
				C4067	1-164-346-11	CERAMIC CHIP 1 μ F	16V
				C4068	1-164-346-11	CERAMIC CHIP 1 μ F	16V
				C4069	1-164-346-11	CERAMIC CHIP 1 μ F	16V
				C4070	1-164-346-11	CERAMIC CHIP 1 μ F	16V
				C4071	1-164-346-11	CERAMIC CHIP 1 μ F	16V
				C4072	1-164-346-11	CERAMIC CHIP 1 μ F	16V
				C4073	1-126-933-11	ELECT 100 μ F	20% 16V

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C4074	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C4075	1-126-933-11	ELECT 100μF	20% 16V
C4076	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C4079	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C4080	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C4081	1-126-933-11	ELECT 100μF	20% 16V
C4082	1-126-964-11	ELECT 10μF	20% 50V
C4083	1-163-038-00	CERAMIC CHIP 0.1μF	25V
C4085	1-126-968-11	ELECT 100μF	20% 50V
C4086	1-126-964-11	ELECT 10μF	20% 50V
C4087	1-126-959-11	ELECT 0.47μF	20% 50V
C4088	1-163-133-00	CERAMIC CHIP 470pF	5% 50V
C4089	1-163-133-00	CERAMIC CHIP 470pF	5% 50V
C4090	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C4091	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C4101	1-163-121-00	CERAMIC CHIP 150pF	5% 50V
C4503	1-126-967-11	ELECT 47μF	20% 50V

<CONNECTOR>

CN4002	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P
CN4005	1-695-915-11	TAB (CONTACT)
CN4006	1-695-915-11	TAB (CONTACT)
CN4204	* 1-764-334-11	PLUG, CONNECTOR 11P
CN4205	* 1-564-515-11	PLUG, CONNECTOR 12P
CN4207	* 1-564-509-11	PLUG, CONNECTOR 6P
CN4501	* 1-564-511-11	PLUG, CONNECTOR 8P
CN4502	* 1-564-510-11	PLUG, CONNECTOR 7P
CN4604	* 1-564-510-11	PLUG, CONNECTOR 7P
CN4901	* 1-564-508-11	PLUG, CONNECTOR 5P

<DIODE>

D4002	8-719-812-43	DIODE TLG124A
D4003	8-719-977-81	ZENER DIODE DTZ33B
D4004	8-719-977-22	ZENER DIODE DTZ9.1
D4005	8-719-914-43	DIODE DAN202K
D4006	8-719-977-22	ZENER DIODE DTZ9.1
D4007	8-719-977-22	ZENER DIODE DTZ9.1
D4008	8-719-977-22	ZENER DIODE DTZ9.1
D4009	8-719-977-22	ZENER DIODE DTZ9.1
D4010	8-719-977-22	ZENER DIODE DTZ9.1
D4011	8-719-158-15	ZENER DIODE RD5.6SB
D4015	8-719-158-15	ZENER DIODE RD5.6SB
D4016	8-719-977-22	ZENER DIODE DTZ9.1
D4017	8-719-914-43	DIODE DAN202K
D4018	8-719-977-22	ZENER DIODE DTZ9.1
D4019	8-719-977-22	ZENER DIODE DTZ9.1
D4020	8-719-977-22	ZENER DIODE DTZ9.1
D4021	8-719-977-22	ZENER DIODE DTZ9.1

<FERRITE BEAD>

FB4001	1-414-234-22	INDUCTOR CHIP
FB4002	1-414-234-22	INDUCTOR CHIP
FB4003	1-414-234-22	INDUCTOR CHIP
FB4004	1-414-234-22	INDUCTOR CHIP
FB4005	1-414-234-22	INDUCTOR CHIP
FB4006	1-414-234-22	INDUCTOR CHIP
FB4007	1-414-234-22	INDUCTOR CHIP
FB4008	1-414-234-22	INDUCTOR CHIP
FB4009	1-414-234-22	INDUCTOR CHIP
FB4010	1-414-234-22	INDUCTOR CHIP
FB4011	1-414-234-22	INDUCTOR CHIP
FB4012	1-414-234-22	INDUCTOR CHIP
FB4013	1-414-234-22	INDUCTOR CHIP
FB4014	1-414-234-22	INDUCTOR CHIP
FB4015	1-414-234-22	INDUCTOR CHIP

REF. NO.	PART NO.	DESCRIPTION	REMARK
FB4016	1-414-234-22	INDUCTOR CHIP	
FB4017	1-414-234-22	INDUCTOR CHIP	
FB4018	1-414-234-22	INDUCTOR CHIP	
FB4019	1-414-234-22	INDUCTOR CHIP	
FB4020	1-414-234-22	INDUCTOR CHIP	
FB4021	1-414-234-22	INDUCTOR CHIP	
FB4022	1-414-234-22	INDUCTOR CHIP	
FB4023	1-414-234-22	INDUCTOR CHIP	
FB4025	1-414-234-22	INDUCTOR CHIP	
FB4026	1-414-234-22	INDUCTOR CHIP	
FB4027	1-414-234-22	INDUCTOR CHIP	
FB4028	1-414-234-22	INDUCTOR CHIP	
<FILTER>			
FL6032	1-236-071-11	ENCAPSULATED COMPONENT	
FL6033	1-236-071-11	ENCAPSULATED COMPONENT	
FL6034	1-236-071-11	ENCAPSULATED COMPONENT	

<IC>

IC4001	8-759-587-04	IC SAA7127H
IC4002	8-759-587-03	IC TDA8601T
IC4003	8-752-087-76	IC CXA2089Q-T6
IC4004	8-759-057-06	IC PCF8591T
IC4005	8-752-072-94	IC CXA1875AM-T4
IC4006	8-759-648-19	IC L7809CV/LSY
IC4007	8-759-574-75	IC KA78R33-YDTU
IC4008	8-759-239-25	IC TC74HC4066AF

<COIL>

L4001	1-410-645-31	INDUCTOR 100μH
L4002	1-410-645-31	INDUCTOR 100μH
L4005	1-410-645-31	INDUCTOR 100μH
L4006	1-410-667-31	INDUCTOR 22μH
L4010	1-410-645-31	INDUCTOR 100μH
L4501	1-414-856-11	INDUCTOR 10μH

<TRANSISTOR>

Q4001	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q4002	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q4003	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q4004	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q4007	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q4010	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q4011	8-729-216-22	TRANSISTOR 2SA1162-G
Q4501	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q4502	8-729-216-22	TRANSISTOR 2SA1162-G

<RESISTOR>

R4001	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4002	1-216-025-91	RES,CHIP	100	5%	1/10W
R4003	1-216-022-00	RES,CHIP	75	5%	1/10W
R4004	1-216-049-91	RES,CHIP	1K	5%	1/10W
R4006	1-216-295-91	SHORT	0		
R4011	1-216-025-91	RES,CHIP	100	5%	1/10W
R4012	1-216-025-91	RES,CHIP	100	5%	1/10W
R4013	1-216-025-91	RES,CHIP	100	5%	1/10W
R4014	1-216-295-91	SHORT	0		
R4015	1-216-025-91	RES,CHIP	100	5%	1/10W
R4016	1-216-025-91	RES,CHIP	100	5%	1/10W
R4017	1-216-049-91	RES,CHIP	1K	5%	1/10W
R4018	1-216-073-00	RES,CHIP	10K	5%	1/10W
R4019	1-216-025-91	RES,CHIP	100	5%	1/10W
R4020	1-216-025-91	RES,CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R4024	1-216-025-91	RES,CHIP	100 5% 1/10W	R4106	1-216-025-91	RES,CHIP	100 5% 1/10W
R4025	1-216-022-00	RES,CHIP	75 5% 1/10W	R4107	1-216-025-91	RES,CHIP	100 5% 1/10W
R4026	1-216-022-00	RES,CHIP	75 5% 1/10W	R4108	1-216-033-00	RES,CHIP	220 5% 1/10W
R4027	1-216-022-00	RES,CHIP	75 5% 1/10W	R4109	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4028	1-216-025-91	RES,CHIP	100 5% 1/10W	R4110	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4029	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4111	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4030	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4112	1-216-085-00	RES,CHIP	33K 5% 1/10W
R4031	1-216-295-91	SHORT	0	R4116	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4032	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4118	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R4033	1-216-025-91	RES,CHIP	100 5% 1/10W	R4131	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4034	1-216-025-91	RES,CHIP	100 5% 1/10W	R4501	1-216-033-00	RES,CHIP	220 5% 1/10W
R4035	1-216-113-00	RES,CHIP	470K 5% 1/10W	R4502	1-216-295-91	SHORT	0
R4036	1-216-022-00	RES,CHIP	75 5% 1/10W	R4503	1-216-295-91	SHORT	0
R4037	1-216-025-91	RES,CHIP	100 5% 1/10W	R4504	1-216-295-91	SHORT	0
R4038	1-216-025-91	RES,CHIP	100 5% 1/10W	R4505	1-216-295-91	SHORT	0
R4039	1-216-025-91	RES,CHIP	100 5% 1/10W	R4506	1-216-295-91	SHORT	0
R4040	1-216-025-91	RES,CHIP	100 5% 1/10W	R4507	1-216-295-91	SHORT	0
R4042	1-216-025-91	RES,CHIP	100 5% 1/10W	R4508	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4043	1-216-025-91	RES,CHIP	100 5% 1/10W	R4511	1-216-113-00	RES,CHIP	470K 5% 1/10W
R4044	1-216-022-00	RES,CHIP	75 5% 1/10W	R4513	1-216-089-91	RES,CHIP	47K 5% 1/10W
R4045	1-216-033-00	RES,CHIP	220 5% 1/10W	<TUNER>			
R4046	1-216-113-00	RES,CHIP	470K 5% 1/10W	TU4001	8-598-502-00	FRONTEND BTD-DU602	
R4047	1-216-073-00	RES,CHIP	10K 5% 1/10W	TU4002	8-598-515-00	RF SPLITTER RFD-AC401	
R4048	1-216-022-00	RES,CHIP	75 5% 1/10W	*****			
R4049	1-216-025-91	RES,CHIP	100 5% 1/10W	* A-1631-061-AA3 BOARD, COMPLETE			
R4051	1-216-025-91	RES,CHIP	100 5% 1/10W	*****			
R4052	1-216-295-91	SHORT	0	<CAPACITOR>			
R4053	1-216-295-91	SHORT	0	C1101	1-104-664-11	ELECT	47μF 20% 16V
R4054	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	C1102	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R4055	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	C1104	1-126-963-11	ELECT	4.7μF 20% 50V
R4056	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	C1105	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
R4057	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	C1106	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
R4058	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	C1107	1-126-960-11	ELECT	1μF 20% 50V
R4059	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	C1108	1-104-664-11	ELECT	47μF 20% 16V
R4060	1-216-295-91	SHORT	0	C1109	1-104-664-11	ELECT	47μF 20% 16V
R4061	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1110	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R4063	1-216-049-91	RES,CHIP	1K 5% 1/10W	C1111	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
R4065	1-216-295-91	SHORT	0	C1112	1-164-346-11	CERAMIC CHIP	1μF 16V
R4066	1-216-295-91	SHORT	0	C1113	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R4067	1-216-295-91	SHORT	0	C1114	1-104-664-11	ELECT	47μF 20% 16V
R4068	1-216-049-91	RES,CHIP	1K 5% 1/10W	C1116	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
R4069	1-216-295-91	SHORT	0	C1118	1-104-664-11	ELECT	47μF 20% 16V
R4071	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1120	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R4073	1-216-113-00	RES,CHIP	470K 5% 1/10W	C1121	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R4075	1-216-041-00	RES,CHIP	470 5% 1/10W	C1124	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R4077	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1125	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R4078	1-216-113-00	RES,CHIP	470K 5% 1/10W	<CONNECTOR>			
R4079	1-216-073-00	RES,CHIP	10K 5% 1/10W	CN1101	* 1-770-748-11	CONNECTOR, BOARD TO BOARD 12P	
R4081	1-216-073-00	RES,CHIP	10K 5% 1/10W	<IC>			
R4082	1-216-073-00	RES,CHIP	10K 5% 1/10W	IC1101	8-752-072-94	IC CXA1875AM-T4	
R4084	1-216-073-00	RES,CHIP	10K 5% 1/10W	IC1102	8-759-514-57	IC BA7046F	
R4086	1-216-073-00	RES,CHIP	10K 5% 1/10W	IC1103	8-759-926-98	IC SN74HC4040ANS	
R4087	1-216-021-00	RES,CHIP	68 5% 1/10W	IC1104	8-759-009-02	IC MC14046BF	
R4088	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	IC1105	8-759-926-98	IC SN74HC4040ANS	
R4089	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	IC1107	8-759-424-27	IC MC74HC163AFEL	
R4090	1-216-073-00	RES,CHIP	10K 5% 1/10W	IC1108	8-759-926-98	IC SN74HC4040ANS	
R4091	1-216-295-91	SHORT	0				
R4092	1-216-073-00	RES,CHIP	10K 5% 1/10W				
R4093	1-216-295-91	SHORT	0				
R4094	1-216-295-91	SHORT	0				
R4095	1-216-073-00	RES,CHIP	10K 5% 1/10W				
R4096	1-216-073-00	RES,CHIP	10K 5% 1/10W				
R4097	1-216-073-00	RES,CHIP	10K 5% 1/10W				
R4098	1-216-295-91	SHORT	0				
R4100	1-216-073-00	RES,CHIP	10K 5% 1/10W				
R4102	1-216-295-91	SHORT	0				
R4103	1-216-295-91	SHORT	0				
R4105	1-216-033-00	RES,CHIP	220 5% 1/10W				

KP-41DS1U/PZ1B/PZ1D/PZ1E

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC1109	8-759-424-27	IC MC74HC163AFEL		R1168	1-216-061-00	RES,CHIP 3.3K 5%	1/10W
IC1110	8-759-367-69	IC MC74HC74AFEL		R1169	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC1112	8-759-424-27	IC MC74HC163AFEL		R1170	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC1113	8-759-424-13	IC MC74HC00AFEL		*****			
IC1114	8-759-367-69	IC MC74HC74AFEL		* A-1631-062-AA4 BOARD, COMPLETE			
IC1115	8-759-367-69	IC MC74HC74AFEL		(KP-41PZ1B/PZ1D/PZ1E)			
<COIL>				*****			
L1100	1-414-187-11	INDUCTOR 47μH		<CAPACITOR>			
L1101	1-414-187-11	INDUCTOR 47μH		C4001	1-136-153-00	MYLAR 0.01μF 5%	50V
L1103	1-414-187-11	INDUCTOR 47μH		C4002	1-126-933-11	ELECT 100μF 20%	16V
L1104	1-414-187-11	INDUCTOR 47μH		C4003	1-126-933-11	ELECT 100μF 20%	16V
<TRANSISTOR>				C4004	1-102-129-00	CERAMIC 0.01μF 10%	50V
Q1101	1-801-806-11	TRANSISTOR DTC144EKA-T146		C4005	1-102-129-00	CERAMIC 0.01μF 10%	50V
Q1109	1-801-806-11	TRANSISTOR DTC144EKA-T146		C4006	1-126-933-11	ELECT 100μF 20%	16V
<RESISTOR>				C4032	1-126-964-11	ELECT 10μF 20%	50V
R1101	1-216-025-91	RES,CHIP 100 5%	1/10W	C4035	1-126-964-11	ELECT 10μF 20%	50V
R1103	1-216-113-00	RES,CHIP 470K 5%	1/10W	C4036	1-126-964-11	ELECT 10μF 20%	50V
R1104	1-216-025-91	RES,CHIP 100 5%	1/10W	C4038	1-126-964-11	ELECT 10μF 20%	50V
R1105	1-216-025-91	RES,CHIP 100 5%	1/10W	C4039	1-126-964-11	ELECT 10μF 20%	50V
R1106	1-216-295-91	SHORT 0		C4040	1-136-165-00	MYLAR 0.1μF 5%	50V
R1107	1-216-025-91	RES,CHIP 100 5%	1/10W	C4041	1-136-165-00	MYLAR 0.1μF 5%	50V
R1108	1-216-295-91	SHORT 0		C4042	1-136-165-00	MYLAR 0.1μF 5%	50V
R1109	1-216-295-91	SHORT 0		C4043	1-136-165-00	MYLAR 0.1μF 5%	50V
R1110	1-216-295-91	SHORT 0		C4044	1-136-165-00	MYLAR 0.1μF 5%	50V
R1111	1-216-295-91	SHORT 0		C4045	1-136-165-00	MYLAR 0.1μF 5%	50V
R1112	1-216-069-00	RES,CHIP 6.8K 5%	1/10W	C4046	1-136-165-00	MYLAR 0.1μF 5%	50V
R1113	1-216-295-91	SHORT 0		C4047	1-136-165-00	MYLAR 0.1μF 5%	50V
R1114	1-216-113-00	RES,CHIP 470K 5%	1/10W	C4048	1-136-165-00	MYLAR 0.1μF 5%	50V
R1115	1-216-073-00	RES,CHIP 10K 5%	1/10W	C4055	1-136-165-00	MYLAR 0.1μF 5%	50V
R1116	1-216-065-91	RES,CHIP 4.7K 5%	1/10W	C4056	1-136-165-00	MYLAR 0.1μF 5%	50V
R1117	1-218-755-11	METAL CHIP 130K 0.50%	1/10W	C4057	1-136-165-00	MYLAR 0.1μF 5%	50V
R1121	1-216-073-00	RES,CHIP 10K 5%	1/10W	C4058	1-136-165-00	MYLAR 0.1μF 5%	50V
R1122	1-216-295-91	SHORT 0		C4059	1-136-165-00	MYLAR 0.1μF 5%	50V
R1123	1-216-025-91	RES,CHIP 100 5%	1/10W	C4060	1-136-165-00	MYLAR 0.1μF 5%	50V
R1124	1-216-687-11	METAL CHIP 33K 0.50%	1/10W	C4061	1-136-165-00	MYLAR 0.1μF 5%	50V
R1125	1-216-683-11	METAL CHIP 22K 0.50%	1/10W	C4062	1-136-165-00	MYLAR 0.1μF 5%	50V
R1126	1-216-085-00	RES,CHIP 33K 5%	1/10W	C4064	1-126-964-11	ELECT 10μF 20%	50V
R1127	1-216-065-91	RES,CHIP 4.7K 5%	1/10W	C4066	1-126-959-11	ELECT 0.47μF 20%	50V
R1128	1-216-025-91	RES,CHIP 100 5%	1/10W	C4067	1-126-959-11	ELECT 0.47μF 20%	50V
R1129	1-216-295-91	SHORT 0		C4068	1-126-960-11	ELECT 1μF 20%	50V
R1131	1-216-073-00	RES,CHIP 10K 5%	1/10W	C4071	1-126-960-11	ELECT 1μF 20%	50V
R1132	1-216-033-00	RES,CHIP 220 5%	1/10W	C4072	1-126-960-11	ELECT 1μF 20%	50V
R1133	1-216-025-91	RES,CHIP 100 5%	1/10W	C4082	1-126-964-11	ELECT 10μF 20%	50V
R1134	1-216-295-91	SHORT 0		C4083	1-126-964-11	ELECT 10μF 20%	50V
R1135	1-216-033-00	RES,CHIP 220 5%	1/10W	C4084	1-126-964-11	ELECT 10μF 20%	50V
R1137	1-216-025-91	RES,CHIP 100 5%	1/10W	C4085	1-126-964-11	ELECT 10μF 20%	50V
R1144	1-216-033-00	RES,CHIP 220 5%	1/10W	C4101	1-136-165-00	MYLAR 0.1μF 5%	50V
R1146	1-216-033-00	RES,CHIP 220 5%	1/10W	C4102	1-136-165-00	MYLAR 0.1μF 5%	50V
R1147	1-216-033-00	RES,CHIP 220 5%	1/10W	<CONNECTOR>			
R1148	1-216-033-00	RES,CHIP 220 5%	1/10W	CN4204	1-764-334-11	PLUG, CONNECTOR 11P	
R1150	1-216-033-00	RES,CHIP 220 5%	1/10W	CN4205	* 1-564-515-11	PLUG, CONNECTOR 12P	
R1151	1-216-033-00	RES,CHIP 220 5%	1/10W	CN4207	* 1-564-509-11	PLUG, CONNECTOR 6P	
R1152	1-216-033-00	RES,CHIP 220 5%	1/10W	CN4501	* 1-564-511-11	PLUG, CONNECTOR 8P	
R1159	1-216-033-00	RES,CHIP 220 5%	1/10W	CN4502	* 1-564-510-11	PLUG, CONNECTOR 7P	
R1160	1-216-033-00	RES,CHIP 220 5%	1/10W	CN4604	* 1-564-510-11	PLUG, CONNECTOR 7P	
R1161	1-216-025-91	RES,CHIP 100 5%	1/10W	<IC>			
R1162	1-216-025-91	RES,CHIP 100 5%	1/10W	IC4003	8-752-086-25	IC CXA2089S	
R1163	1-216-025-91	RES,CHIP 100 5%	1/10W	IC4006	8-759-648-19	IC L7809CV/LSY	
R1164	1-216-025-91	RES,CHIP 100 5%	1/10W				
R1165	1-216-295-91	SHORT 0					
R1166	1-216-073-00	RES,CHIP 10K 5%	1/10W				
R1167	1-216-073-00	RES,CHIP 10K 5%	1/10W				



REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
	<COIL>						C19	1-163-017-00	CERAMIC CHIP 0.0047μF	10%		50V	
L4010	1-410-645-31	INDUCTOR	100μH				C20	1-163-021-91	CERAMIC CHIP 0.01μF	10%		50V	
							C21	1-163-021-91	CERAMIC CHIP 0.01μF	10%		50V	
	<TRANSISTOR>						C22	1-163-251-11	CERAMIC CHIP 100pF	5%	50V		
							C24	1-163-275-11	CERAMIC CHIP 0.001μF	5%	50V		
Q4003	8-729-119-78	TRANSISTOR 2SC2785-HFE					C25	1-104-664-11	ELECT 47μF	20%	16V		
Q4007	8-729-119-78	TRANSISTOR 2SC2785-HFE					C26	1-104-664-11	ELECT 47μF	20%	16V		
Q4008	8-729-119-78	TRANSISTOR 2SC2785-HFE					C28	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
Q4009	8-729-119-78	TRANSISTOR 2SC2785-HFE					C29	1-163-009-11	CERAMIC CHIP 0.001μF	10%	50V		
Q4010	8-729-119-78	TRANSISTOR 2SC2785-HFE					C43	1-163-121-00	CERAMIC CHIP 150pF	5%	50V		
	<RESISTOR>						C45	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4003	1-247-804-11	CARBON	75	5%	1/4W		C90	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4029	1-249-429-11	CARBON	10K	5%	1/4W		C101	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4030	1-249-429-11	CARBON	10K	5%	1/4W		C102	1-126-934-11	ELECT 220μF	20%	16V		
R4031	1-247-815-91	CARBON	220	5%	1/4W		C103	1-126-965-11	ELECT 22μF	20%	50V		
R4032	1-249-429-11	CARBON	10K	5%	1/4W		C104	1-163-251-11	CERAMIC CHIP 100pF	5%	50V		
R4034	1-247-815-91	CARBON	220	5%	1/4W		C105	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4047	1-249-429-11	CARBON	10K	5%	1/4W		C106	1-126-933-11	ELECT 100μF	20%	16V		
R4054	1-249-418-11	CARBON	1.2K	5%	1/4W		C107	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4055	1-249-418-11	CARBON	1.2K	5%	1/4W		C108	1-126-933-11	ELECT 100μF	20%	16V		
R4058	1-249-418-11	CARBON	1.2K	5%	1/4W		C109	1-163-037-11	CERAMIC CHIP 0.022μF	10%	50V		
R4059	1-249-418-11	CARBON	1.2K	5%	1/4W		C110	1-104-664-11	ELECT 47μF	20%	16V		
R4073	1-247-895-91	CARBON	470K	5%	1/4W		C111	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4075	1-249-413-11	CARBON	470	5%	1/4W		C112	1-163-275-11	CERAMIC CHIP 0.001μF	5%	50V		
R4076	1-247-895-91	CARBON	470K	5%	1/4W		C113	1-104-664-11	ELECT 47μF	20%	16V		
R4078	1-247-895-91	CARBON	470K	5%	1/4W		C114	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4083	1-247-895-91	CARBON	470K	5%	1/4W		C115	1-163-021-91	CERAMIC CHIP 0.01μF	10%	50V		
R4084	1-249-429-11	CARBON	10K	5%	1/4W		C116	1-115-340-11	CERAMIC CHIP 0.22μF	10%	25V		
R4085	1-249-417-11	CARBON	1K	5%	1/4W		C117	1-163-021-91	CERAMIC CHIP 0.01μF	10%	50V		
R4087	1-247-804-11	CARBON	75	5%	1/4W		C118	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4088	1-247-843-11	CARBON	3.3K	5%	1/4W		C119	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4089	1-249-427-11	CARBON	6.8K	5%	1/4W		C120	1-163-251-11	CERAMIC CHIP 100pF	5%	50V		
R4101	1-247-807-31	CARBON	100	5%	1/4W		C121	1-163-113-00	CERAMIC CHIP 68pF	5%	50V		
R4106	1-247-807-31	CARBON	100	5%	1/4W		C122	1-163-137-00	CERAMIC CHIP 680pF	5%	50V		
R4107	1-247-807-31	CARBON	100	5%	1/4W		C123	1-163-113-00	CERAMIC CHIP 68pF	5%	50V		
R4108	1-249-441-11	CARBON	100K	5%	1/4W		C124	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4110	1-247-807-31	CARBON	100	5%	1/4W		C125	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4111	1-249-441-11	CARBON	100K	5%	1/4W		C126	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4112	1-247-807-31	CARBON	100	5%	1/4W		C127	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4113	1-249-441-11	CARBON	100K	5%	1/4W		C128	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4114	1-247-891-00	CARBON	330K	5%	1/4W		C129	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4115	1-249-441-11	CARBON	100K	5%	1/4W		C130	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4116	1-247-807-31	CARBON	100	5%	1/4W		C131	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4117	1-247-807-31	CARBON	100	5%	1/4W		C132	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4118	1-247-807-31	CARBON	100	5%	1/4W		C133	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
R4119	1-247-891-00	CARBON	330K	5%	1/4W		C134	1-163-251-11	CERAMIC CHIP 100pF	5%	50V		
R4120	1-249-441-11	CARBON	100K	5%	1/4W		C136	1-126-964-11	ELECT 10μF	20%	50V		
							C137	1-104-664-11	ELECT 47μF	20%	16V		
							C138	1-126-964-11	ELECT 10μF	20%	50V		
							C139	1-163-021-91	CERAMIC CHIP 0.01μF	10%	50V		
							C140	1-126-964-11	ELECT 10μF	20%	50V		
							C141	1-126-934-11	ELECT 220μF	20%	16V		
							C142	1-163-249-11	CERAMIC CHIP 82pF	5%	50V		
	*****						C143	1-163-121-00	CERAMIC CHIP 150pF	5%	50V		
	* A-1632-862-AA BOARD, COMPLETE (KP-41DS1U)						C144	1-163-249-11	CERAMIC CHIP 82pF	5%	50V		
	* A-1632-863-AA BOARD, COMPLETE (KP-41PZ1B/PZ1D/PZ1E)						C145	1-163-227-11	CERAMIC CHIP 10pF	0.5pF	50V		
	*****						C146	1-164-346-11	CERAMIC CHIP 1μF		16V		
							C201	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
	<CAPACITOR>						C202	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
C1	1-163-038-91	CERAMIC CHIP 0.1μF				25V	C203	1-104-661-91	ELECT 330μF	20%	16V		
C2	1-104-664-11	ELECT 47μF				16V	C204	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
C3	1-163-239-11	CERAMIC CHIP 33pF		20%		50V	C205	1-126-965-11	ELECT 22μF	20%	50V		
C4	1-163-239-11	CERAMIC CHIP 33pF		5%		50V	C206	1-163-275-11	CERAMIC CHIP 0.001μF	5%	50V		
C8	1-163-038-91	CERAMIC CHIP 0.1μF				25V	C207	1-126-964-11	ELECT 10μF	20%	50V		
							C208	1-163-038-91	CERAMIC CHIP 0.1μF		25V		
C15	1-163-133-00	CERAMIC CHIP 470pF		5%		50V	C209	1-216-295-91	SHORT 0				
C18	1-163-038-91	CERAMIC CHIP 0.1μF				25V	C210	1-163-251-11	CERAMIC CHIP 100pF	5%	50V		
							C211	1-126-965-11	ELECT 22μF	20%	50V		

* A-1632-862-AA BOARD, COMPLETE (KP-41DS1U)
 * A-1632-863-AA BOARD, COMPLETE
 (KP-41PZ1B/PZ1D/PZ1E)

<CAPACITOR>

KP-41DS1U/PZ1B/PZ1D/PZ1E

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C212	1-164-346-11	CERAMIC CHIP 1μF		C300	1-163-251-11	CERAMIC CHIP 100pF	5%
C213	1-163-133-00	CERAMIC CHIP 470pF	5%	C301	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C214	1-164-346-11	CERAMIC CHIP 1μF	16V				
C215	1-163-133-00	CERAMIC CHIP 470pF	5%	C302	1-163-275-11	CERAMIC CHIP 0.001μF	5%
C216	1-104-664-11	ELECT 47μF	20%	C303	1-163-275-11	CERAMIC CHIP 0.001μF	5%
				C304	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C217	1-163-021-91	CERAMIC CHIP 0.01μF	10%	C305	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C218	1-104-664-11	ELECT 47μF	20%	C306	1-163-021-91	CERAMIC CHIP 0.01μF	10%
C219	1-163-021-91	CERAMIC CHIP 0.01μF	10%				
C220	1-126-933-11	ELECT 100μF	20%	C307	1-163-021-91	CERAMIC CHIP 0.01μF	10%
C221	1-164-505-11	CERAMIC CHIP 2.2μF	16V	C308	1-163-021-91	CERAMIC CHIP 0.01μF	10%
				C309	1-164-346-11	CERAMIC CHIP 1μF	16V
C222	1-164-346-11	CERAMIC CHIP 1μF	16V	C310	1-164-346-11	CERAMIC CHIP 1μF	16V
C223	1-163-133-00	CERAMIC CHIP 470pF	5%	C311	1-164-346-11	CERAMIC CHIP 1μF	16V
C224	1-164-346-11	CERAMIC CHIP 1μF	16V				
C225	1-163-133-00	CERAMIC CHIP 470pF	5%	C312	1-164-505-11	CERAMIC CHIP 2.2μF	16V
C226	1-104-664-11	ELECT 47μF	20%	C313	1-163-275-11	CERAMIC CHIP 0.001μF	5%
				C315	1-216-295-91	SHORT 0	
C227	1-163-021-91	CERAMIC CHIP 0.01μF	10%	C316	1-163-239-11	CERAMIC CHIP 33pF	5%
C228	1-104-664-11	ELECT 47μF	20%	C317	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C229	1-163-021-91	CERAMIC CHIP 0.01μF	10%				
C230	1-163-251-11	CERAMIC CHIP 100pF	5%	C320	1-126-965-11	ELECT 22μF	20%
C231	1-104-664-11	ELECT 47μF	20%	C321	1-163-021-91	CERAMIC CHIP 0.01μF	10%
				C322	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C232	1-216-295-91	SHORT 0		C323	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C236	1-163-251-11	CERAMIC CHIP 100pF	5%	C324	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C237	1-164-505-11	CERAMIC CHIP 2.2μF	16V				
C240	1-126-933-11	ELECT 100μF	20%	C325	1-164-346-11	CERAMIC CHIP 1μF	16V
C241	1-104-664-11	ELECT 47μF	20%	C326	1-163-275-11	CERAMIC CHIP 0.001μF	5%
				C327	1-137-374-11	MYLAR 0.047μF	5%
C242	1-163-021-91	CERAMIC CHIP 0.01μF	10%	C328	1-126-964-11	ELECT 10μF	20%
C243	1-126-967-11	ELECT 47μF	20%	C330	1-130-777-00	MYLAR 0.1μF	5%
C244	1-163-021-91	CERAMIC CHIP 0.01μF	10%				
C245	1-163-021-91	CERAMIC CHIP 0.01μF	10%	C331	1-137-581-11	FILM 0.1μF	5%
C246	1-104-664-11	ELECT 47μF	20%	C332	1-163-021-91	CERAMIC CHIP 0.01μF	10%
				C333	1-126-933-11	ELECT 100μF	20%
C247	1-104-664-11	ELECT 47μF	20%	C334	1-163-021-91	CERAMIC CHIP 0.01μF	10%
C248	1-163-251-11	CERAMIC CHIP 100pF	5%	C335	1-164-005-11	CERAMIC CHIP 0.47μF	25V
C249	1-164-346-11	CERAMIC CHIP 1μF	16V				
C250	1-164-346-11	CERAMIC CHIP 1μF	16V	C336	1-163-009-11	CERAMIC CHIP 0.001μF	10%
C251	1-163-087-00	CERAMIC CHIP 4pF	0.25pF	C337	1-163-009-11	CERAMIC CHIP 0.001μF	10%
				C338	1-126-962-11	ELECT 3.3μF	20%
C252	1-163-087-00	CERAMIC CHIP 4pF	0.25pF	C339	1-163-021-91	CERAMIC CHIP 0.01μF	10%
C253	1-163-251-11	CERAMIC CHIP 100pF	5%	C340	1-126-933-11	ELECT 100μF	20%
C254	1-163-243-11	CERAMIC CHIP 47pF	5%				
C255	1-163-251-11	CERAMIC CHIP 100pF	5%	C341	1-164-005-11	CERAMIC CHIP 0.47μF	25V
C256	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C342	1-164-346-11	CERAMIC CHIP 1μF	16V
				C343	1-163-017-00	CERAMIC CHIP 0.0047μF	10%
C257	1-126-965-11	ELECT 22μF	20%	C344	1-163-251-11	CERAMIC CHIP 100pF	5%
C258	1-126-964-11	ELECT 10μF	20%	C347	1-126-963-11	ELECT 4.7μF	20%
C259	1-164-005-11	CERAMIC CHIP 0.47μF	25V				
C260	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C348	1-163-133-00	CERAMIC CHIP 470pF	5%
C261	1-163-133-00	CERAMIC CHIP 470pF	5%	C350	1-126-964-11	ELECT 10μF	20%
				C351	1-164-505-11	CERAMIC CHIP 2.2μF	16V
C262	1-163-133-00	CERAMIC CHIP 470pF	5%	C352	1-164-005-11	CERAMIC CHIP 0.47μF	25V
C263	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C353	1-164-505-11	CERAMIC CHIP 2.2μF	16V
C264	1-126-962-11	ELECT 3.3μF	20%				
C265	1-126-964-11	ELECT 10μF	20%	C354	1-164-005-11	CERAMIC CHIP 0.47μF	25V
C266	1-126-964-11	ELECT 10μF	20%	C355	1-126-965-11	ELECT 22μF	20%
				C356	1-163-021-91	CERAMIC CHIP 0.01μF	10%
C267	1-126-965-11	ELECT 22μF	20%	C357	1-163-133-00	CERAMIC CHIP 470pF	5%
C268	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C358	1-164-005-11	CERAMIC CHIP 0.47μF	25V
C269	1-163-131-00	CERAMIC CHIP 390pF	5%				
C270	1-163-131-00	CERAMIC CHIP 390pF	5%	C359	1-163-231-11	CERAMIC CHIP 15pF	5%
C271	1-163-275-11	CERAMIC CHIP 0.001μF	5%	C360	1-163-231-11	CERAMIC CHIP 15pF	5%
				C370	1-164-505-11	CERAMIC CHIP 2.2μF	16V
C272	1-163-275-11	CERAMIC CHIP 0.001μF	5%	C371	1-163-275-11	CERAMIC CHIP 0.001μF	5%
C273	1-163-275-11	CERAMIC CHIP 0.001μF	5%	C372	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C274	1-163-275-11	CERAMIC CHIP 0.001μF	5%				
C275	1-164-346-11	CERAMIC CHIP 1μF	16V	C373	1-164-489-11	CERAMIC CHIP 0.22μF	10%
C276	1-164-346-11	CERAMIC CHIP 1μF	16V	C377	1-126-964-11	ELECT 10μF	20%
				C380	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C277	1-164-505-11	CERAMIC CHIP 2.2μF	16V	C1001	1-163-235-11	CERAMIC CHIP 22pF	5%
C278	1-164-505-11	CERAMIC CHIP 2.2μF	16V	C1002	1-163-235-11	CERAMIC CHIP 22pF	5%
C279	1-126-965-11	ELECT 22μF	20%				
C280	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C1010	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C281	1-126-965-11	ELECT 22μF	20%	C1013	1-126-965-11	ELECT 22μF	20%
				C1014	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C282	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C1015	1-164-489-11	CERAMIC CHIP 0.22μF	10%
C283	1-163-021-91	CERAMIC CHIP 0.01μF	10%	C1020	1-163-259-91	CERAMIC CHIP 220pF	5%
C284	1-126-925-11	ELECT 470μF	20%				



REF. NO.	PART NO.	DESCRIPTION	REMARK
C2401	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C2402	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2403	1-104-664-11	ELECT 47μF	20% 16V
C2404	1-126-964-11	ELECT 10μF	20% 50V
C2405	1-164-346-11	CERAMIC CHIP 1μF	16V
C2801	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2802	1-164-489-11	CERAMIC CHIP 0.22μF	10% 16V
C2803	1-164-346-11	CERAMIC CHIP 1μF	16V
C2804	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2805	1-126-964-11	ELECT 10μF	20% 50V
C2807	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2808	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2809	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2810	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2811	1-126-964-11	ELECT 10μF	20% 50V
C2812	1-126-964-11	ELECT 10μF	20% 50V
C2813	1-126-964-11	ELECT 10μF	20% 50V
C2814	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C2816	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2817	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2818	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2820	1-163-263-11	CERAMIC CHIP 330pF	5% 50V
C2821	1-163-263-11	CERAMIC CHIP 330pF	5% 50V
C2822	1-126-934-11	ELECT 220μF	20% 16V
C2823	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2826	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2827	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2828	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C2829	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2830	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C2831	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
C2832	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
C2833	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2834	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2835	1-163-259-91	CERAMIC CHIP 220pF	5% 50V
C2836	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C2837	1-163-239-11	CERAMIC CHIP 33pF	5% 50V
C2838	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C2839	1-164-346-11	CERAMIC CHIP 1μF	16V
C2840	1-164-346-11	CERAMIC CHIP 1μF	16V
C2841	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C2842	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C2843	1-104-664-11	ELECT 47μF	20% 16V
C2845	1-126-964-11	ELECT 10μF	20% 50V
C2846	1-104-664-11	ELECT 47μF	20% 16V
C2847	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C2848	1-163-133-00	CERAMIC CHIP 470pF	5% 50V
C2849	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C2850	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C2851	1-126-964-11	ELECT 10μF	20% 50V
C2852	1-126-964-11	ELECT 10μF	20% 50V
<FILTER>			
CF120	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
<CONNECTOR>			
CN1	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN2	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN6	* 1-564-516-11	PLUG, CONNECTOR 13P	
CN101	1-695-915-11	TAB (CONTACT)	
CN102	1-695-915-11	TAB (CONTACT)	
CN201	1-766-296-11	CONNECTOR, DUAL SCART	
CN204	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN205	* 1-564-515-11	PLUG, CONNECTOR 12P	
CN206	* 1-764-334-11	PLUG, CONNECTOR 11P	
CN301	* 1-564-510-11	PLUG, CONNECTOR 7P	

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN2401	* 1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
<DIODE>			
D2	8-719-988-61	DIODE 1SS355TE-17	
D11	8-719-158-15	ZENER DIODE RD5.6SB	
D12	8-719-158-15	ZENER DIODE RD5.6SB	
D16	8-719-988-61	DIODE 1SS355TE-17	
D101	8-719-977-81	ZENER DIODE DTZ9.1	
D102	8-719-988-61	DIODE 1SS355TE-17	
D201	8-719-977-22	ZENER DIODE DTZ9.1	
D202	8-719-977-22	ZENER DIODE DTZ9.1	
D203	8-719-977-22	ZENER DIODE DTZ9.1	
D204	8-719-977-22	ZENER DIODE DTZ9.1	
D205	8-719-977-22	ZENER DIODE DTZ9.1	
D206	8-719-977-22	ZENER DIODE DTZ9.1	
D207	8-719-977-22	ZENER DIODE DTZ9.1	
D208	8-719-977-22	ZENER DIODE DTZ9.1	
D209	8-719-977-22	ZENER DIODE DTZ9.1	
D210	8-719-977-22	ZENER DIODE DTZ9.1	
D211	8-719-977-22	ZENER DIODE DTZ9.1	
D212	8-719-977-22	ZENER DIODE DTZ9.1	
D213	8-719-977-22	ZENER DIODE DTZ9.1	
D214	8-719-977-22	ZENER DIODE DTZ9.1	
D215	8-719-977-22	ZENER DIODE DTZ9.1	
D216	8-719-158-15	ZENER DIODE RD5.6SB	
D217	8-719-158-15	ZENER DIODE RD5.6SB	
D218	8-719-158-15	ZENER DIODE RD5.6SB	
D220	8-719-988-61	DIODE 1SS355TE-17	
D221	8-719-988-61	DIODE 1SS355TE-17	
D223	8-719-977-22	ZENER DIODE DTZ9.1	
D224	8-719-977-22	ZENER DIODE DTZ9.1	
D225	8-719-977-22	ZENER DIODE DTZ9.1	
D226	8-719-977-22	ZENER DIODE DTZ9.1	
D231	8-719-158-15	ZENER DIODE RD5.6SB	
D251	8-719-047-16	DIODE BAS216	
D302	8-719-158-02	ZENER DIODE RD3.9SB2	
D303	8-719-988-61	DIODE 1SS355TE-17	
D304	8-719-988-61	DIODE 1SS355TE-17	
D305	8-719-914-43	DIODE DAN202K	
D320	8-719-977-22	ZENER DIODE DTZ9.1	
D370	8-719-047-16	DIODE BAS216	
D401	8-719-977-22	ZENER DIODE DTZ9.1	
D402	8-719-988-61	DIODE 1SS355TE-17	
D1001	8-719-988-61	DIODE 1SS355TE-17	
D1010	8-719-036-58	DIODE MA3030-H(TX)	
D2801	8-719-073-01	DIODE MA111-(K8).S0	
D2802	8-719-914-43	DIODE DAN202K	
D2803	8-719-047-37	DIODE BAS16	
D2804	8-719-047-37	DIODE BAS16	
<DELAY LINE>			
DL2801	1-234-460-21	DELAY LINE	
<FERRITE BEAD>			
FB101	1-414-235-22	INDUCTOR CHIP	
<FILTER>			
FL101	1-236-071-11	ENCAPSULATED COMPONENT	
FL102	1-233-765-21	FILTER	
FL103	1-233-765-21	FILTER	
FL104	1-233-765-21	FILTER	
FL105	1-236-071-11	ENCAPSULATED COMPONENT	
FL106	1-236-071-11	ENCAPSULATED COMPONENT	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
FL107	1-236-071-11	ENCAPSULATED COMPONENT		L2401	1-414-183-41	INDUCTOR	10μH
FL108	1-236-071-11	ENCAPSULATED COMPONENT		L2402	1-414-183-41	INDUCTOR	10μH
FL201	1-236-071-11	ENCAPSULATED COMPONENT		L2801	1-414-183-41	INDUCTOR	10μH
FL202	1-236-071-11	ENCAPSULATED COMPONENT		L2802	1-414-183-41	INDUCTOR	10μH
				L2803	1-414-183-41	INDUCTOR	10μH
FL203	1-236-071-11	ENCAPSULATED COMPONENT					
FL1001	1-236-071-11	ENCAPSULATED COMPONENT		L2804	1-414-183-41	INDUCTOR	10μH
				L2805	1-414-183-41	INDUCTOR	10μH
	<IC>			L2806	1-414-183-41	INDUCTOR	10μH
				L2807	1-414-187-11	INDUCTOR	47μH
				L2809	1-414-183-41	INDUCTOR	10μH
IC1	8-759-376-77	IC SDA30C263-GEG					
IC2	8-759-492-55	IC M24C64-WMN6T (KP-41DS1U)					
IC2	8-759-564-06	IC M24C32-MN6T (KP-41PZ1B/PZ1D/PZ1E)					
IC3	1-750-797-11	SOCKET, PLCC					
IC4	8-759-394-57	IC PST593C-MMP-4P					
IC103	8-752-390-37	IC CXD2064Q-T6		Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC201	8-752-081-26	IC CXA2040AQ-T4		Q2	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC202	8-759-491-95	IC MSP3410D-PS-B4-T-ND		Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC204	8-759-008-67	IC MC14066BF		Q17	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC205	8-759-394-57	IC PST593C-MMP-4P		Q18	8-729-027-38	TRANSISTOR DTA144EKA-T146	
IC206	8-752-058-68	IC CXA1315M		Q20	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC301	8-752-081-43	IC CXA2076Q-TL		Q21	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC302	8-759-565-20	IC TDA4665T/V5-118		Q22	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC303	8-759-430-79	IC TDA8395T/N3		Q23	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC1001	8-759-584-20	IC SDA5273-3CP-C55-22-GEG		Q24	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2802	8-759-342-13	IC SAA4981T-T		Q25	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2803	8-759-300-71	IC HD14053BFP		Q82	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC2804	8-759-710-07	IC NJM2234M(T1)		Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2805	8-759-038-15	IC MC74HC4538AF		Q102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2806	8-759-300-71	IC HD14053BFP		Q103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
	<CHIP CONDUCTOR>			Q104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q106	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q107	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
				Q108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
JR1	1-216-295-91	SHORT	0				
JR2	1-216-296-91	SHORT	0	Q109	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
JR3	1-216-296-91	SHORT	0	Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR6	1-216-295-91	SHORT	0	Q111	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
JR201	1-216-295-91	SHORT	0	Q112	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR205	1-216-295-91	SHORT	0				
JR206	1-216-295-91	SHORT	0	Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR207	1-216-295-91	SHORT	0	Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR208	1-216-296-91	SHORT	0	Q116	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q305	8-729-120-28	TRANSISTOR 2SC1623-L5L6			<RESISTOR>		
Q306	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q307	1-801-806-11	TRANSISTOR DTC144EKA-T146		R2	1-216-025-91	RES,CHIP 100	5% 1/10W
Q308	1-801-806-11	TRANSISTOR DTC144EKA-T146		R3	1-216-025-91	RES,CHIP 100	5% 1/10W
Q309	1-801-806-11	TRANSISTOR DTC144EKA-T146		R4	1-216-013-00	RES,CHIP 33	5% 1/10W
				R5	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q330	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6	1-208-798-11	METAL CHIP 4.7K	0.50% 1/10W
Q331	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R7	1-216-041-00	RES,CHIP 470	5% 1/10W
Q333	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9	1-216-041-00	RES,CHIP 470	5% 1/10W
Q334	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R20	1-216-025-91	RES,CHIP 100	5% 1/10W
Q335	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R21	1-216-025-91	RES,CHIP 100	5% 1/10W
Q360	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q401	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R24	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R25	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q403	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R26	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R28	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R29	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q1001	1-801-806-11	TRANSISTOR DTC144EKA-T146		R30	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q1002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R31	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q1003	1-801-806-11	TRANSISTOR DTC144EKA-T146		R32	1-216-025-91	RES,CHIP 100	5% 1/10W
Q1004	1-801-806-11	TRANSISTOR DTC144EKA-T146		R33	1-216-025-91	RES,CHIP 100	5% 1/10W
				R34	1-216-025-91	RES,CHIP 100	5% 1/10W
Q1005	8-729-101-07	TRANSISTOR 2SB798-DL					
Q2401	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R35	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R39	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q2403	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R40	1-216-067-00	RES,CHIP 5.6K	5% 1/10W
Q2404	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R42	1-216-069-00	RES,CHIP 6.8K	5% 1/10W
				R44	1-216-069-00	RES,CHIP 6.8K	5% 1/10W
Q2405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2406	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R46	1-216-095-00	RES,CHIP 82K	5% 1/10W
Q2407	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R47	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
Q2408	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R48	1-216-121-91	RES,CHIP 1M	5% 1/10W
Q2409	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R49	1-216-025-91	RES,CHIP 100	5% 1/10W
				R52	1-216-081-00	RES,CHIP 22K	5% 1/10W
Q2410	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2411	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R53	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q2412	1-801-806-11	TRANSISTOR DTC144EKA-T146		R54	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2413	1-801-806-11	TRANSISTOR DTC144EKA-T146		R58	1-216-063-91	RES,CHIP 3.9K	5% 1/10W
Q2414	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R59	1-216-025-91	RES,CHIP 100	5% 1/10W
				R60	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2801	1-801-806-11	TRANSISTOR DTC144EKA-T146					
Q2802	1-801-806-11	TRANSISTOR DTC144EKA-T146		R61	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2805	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R62	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2806	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R63	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2807	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R64	1-216-025-91	RES,CHIP 100	5% 1/10W
				R65	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2808	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2809	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R66	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
Q2810	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R67	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
Q2811	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R69	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q2812	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R70	1-216-025-91	RES,CHIP 100	5% 1/10W
				R71	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2813	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2814	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R72	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2815	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R73	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2816	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R74	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2818	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R76	1-216-025-91	RES,CHIP 100	5% 1/10W
				R78	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2819	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2820	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R79	1-216-033-00	RES,CHIP 220	5% 1/10W
Q2821	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R80	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q2822	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R85	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q2823	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R88	1-216-025-91	RES,CHIP 100	5% 1/10W
				R91	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2824	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2825	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R92	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2826	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R93	1-216-033-00	RES,CHIP 220	5% 1/10W
Q2827	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R94	1-216-033-00	RES,CHIP 220	5% 1/10W
Q2828	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R95	1-216-033-00	RES,CHIP 220	5% 1/10W
				R97	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2829	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2830	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R100	1-216-033-00	RES,CHIP 220	5% 1/10W
Q2831	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R101	1-216-061-00	RES,CHIP 3.3K	5% 1/10W
Q2832	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R102	1-216-025-91	RES,CHIP 100	5% 1/10W
Q2833	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R103	1-216-025-91	RES,CHIP 100	5% 1/10W
				R104	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q2834	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2835	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R105	1-216-113-00	RES,CHIP 470K	5% 1/10W
Q2836	8-729-120-28	TRANSISTOR 2SC1623-L5L6					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R106	1-216-073-00	RES,CHIP	10K 5% 1/10W	R180	1-216-089-91	RES,CHIP	47K 5% 1/10W
R107	1-216-043-91	RES,CHIP	560 5% 1/10W	R181	1-216-089-91	RES,CHIP	47K 5% 1/10W
R108	1-216-091-00	RES,CHIP	56K 5% 1/10W	R182	1-208-766-11	METAL CHIP	220 0.50% 1/10W
R109	1-216-049-91	RES,CHIP	1K 5% 1/10W	R183	1-208-766-11	METAL CHIP	220 0.50% 1/10W
R110	1-216-073-00	RES,CHIP	10K 5% 1/10W	R184	1-216-041-00	RES,CHIP	470 5% 1/10W
R111	1-216-029-00	RES,CHIP	150 5% 1/10W	R185	1-216-043-91	RES,CHIP	560 5% 1/10W
R112	1-216-029-00	RES,CHIP	150 5% 1/10W	R186	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R113	1-216-001-00	RES,CHIP	10 5% 1/10W	R187	1-216-049-91	RES,CHIP	1K 5% 1/10W
R114	1-216-029-00	RES,CHIP	150 5% 1/10W	R188	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R115	1-216-037-00	RES,CHIP	330 5% 1/10W	R189	1-216-043-91	RES,CHIP	560 5% 1/10W
R116	1-216-041-00	RES,CHIP	470 5% 1/10W	R190	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R117	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R191	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R118	1-216-017-91	RES,CHIP	47 5% 1/10W	R192	1-216-049-91	RES,CHIP	1K 5% 1/10W
R119	1-216-075-00	RES,CHIP	12K 5% 1/10W	R193	1-216-049-91	RES,CHIP	1K 5% 1/10W
R120	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R194	1-216-049-91	RES,CHIP	1K 5% 1/10W
R121	1-216-073-00	RES,CHIP	10K 5% 1/10W	R195	1-216-049-91	RES,CHIP	1K 5% 1/10W
R122	1-216-041-00	RES,CHIP	470 5% 1/10W	R196	1-216-049-91	RES,CHIP	1K 5% 1/10W
R123	1-216-031-00	RES,CHIP	180 5% 1/10W	R197	1-216-049-91	RES,CHIP	1K 5% 1/10W
R124	1-216-049-91	RES,CHIP	1K 5% 1/10W	R198	1-216-033-00	RES,CHIP	220 5% 1/10W
R125	1-216-081-00	RES,CHIP	22K 5% 1/10W	R199	1-208-764-11	METAL CHIP	180 0.50% 1/10W
R126	1-216-025-91	RES,CHIP	100 5% 1/10W	R200	1-216-049-91	RES,CHIP	1K 5% 1/10W
R127	1-216-081-00	RES,CHIP	22K 5% 1/10W	R201	1-216-295-91	SHORT	0 5% 1/10W
R128	1-216-035-00	RES,CHIP	270 5% 1/10W	R202	1-216-049-91	RES,CHIP	1K 5% 1/10W
R129	1-216-037-00	RES,CHIP	330 5% 1/10W	R203	1-216-025-91	RES,CHIP	100 5% 1/10W
R130	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R204	1-216-025-91	RES,CHIP	100 5% 1/10W
R131	1-216-073-00	RES,CHIP	10K 5% 1/10W	R205	1-216-081-00	RES,CHIP	22K 5% 1/10W
R132	1-216-025-91	RES,CHIP	100 5% 1/10W	R206	1-216-033-00	RES,CHIP	220 5% 1/10W
R133	1-216-041-00	RES,CHIP	470 5% 1/10W	R207	1-216-089-91	RES,CHIP	47K 5% 1/10W
R134	1-216-001-00	RES,CHIP	10 5% 1/10W	R208	1-216-041-00	RES,CHIP	470 5% 1/10W
R135	1-216-045-00	RES,CHIP	680 5% 1/10W	R209	1-216-049-91	RES,CHIP	1K 5% 1/10W
R136	1-216-033-00	RES,CHIP	220 5% 1/10W	R210	1-216-017-91	RES,CHIP	47 5% 1/10W
R137	1-216-049-91	RES,CHIP	1K 5% 1/10W	R211	1-216-049-91	RES,CHIP	1K 5% 1/10W
R138	1-216-041-00	RES,CHIP	470 5% 1/10W	R212	1-216-022-00	RES,CHIP	75 5% 1/10W
R139	1-216-049-91	RES,CHIP	1K 5% 1/10W	R213	1-216-022-00	RES,CHIP	75 5% 1/10W
R140	1-216-041-00	RES,CHIP	470 5% 1/10W	R214	1-216-049-91	RES,CHIP	1K 5% 1/10W
R141	1-216-047-91	RES,CHIP	820 5% 1/10W	R216	1-216-025-91	RES,CHIP	100 5% 1/10W
R142	1-216-295-91	SHORT	0 5% 1/10W	R217	1-216-113-00	RES,CHIP	470K 5% 1/10W
R144	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R218	1-216-025-91	RES,CHIP	100 5% 1/10W
R145	1-216-025-91	RES,CHIP	100 5% 1/10W	R219	1-216-113-00	RES,CHIP	470K 5% 1/10W
R146	1-216-025-91	RES,CHIP	100 5% 1/10W	R220	1-216-295-91	SHORT	0 5% 1/10W
R147	1-216-025-91	RES,CHIP	100 5% 1/10W	R221	1-216-039-00	RES,CHIP	390 5% 1/10W
R148	1-216-025-91	RES,CHIP	100 5% 1/10W	R222	1-216-089-91	RES,CHIP	47K 5% 1/10W
R149	1-216-025-91	RES,CHIP	100 5% 1/10W	R223	1-216-295-91	SHORT	0 5% 1/10W
R150	1-216-025-91	RES,CHIP	100 5% 1/10W	R224	1-216-039-00	RES,CHIP	390 5% 1/10W
R151	1-216-025-91	RES,CHIP	100 5% 1/10W	R225	1-216-089-91	RES,CHIP	47K 5% 1/10W
R152	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R226	1-216-049-91	RES,CHIP	1K 5% 1/10W
R153	1-216-025-91	RES,CHIP	100 5% 1/10W	R227	1-216-023-00	RES,CHIP	82 5% 1/10W
R154	1-216-295-91	SHORT	0 5% 1/10W	R228	1-216-022-00	RES,CHIP	75 5% 1/10W
R157	1-216-295-91	SHORT	0 5% 1/10W	R229	1-216-049-91	RES,CHIP	1K 5% 1/10W
R160	1-216-295-91	SHORT	0 5% 1/10W	R230	1-216-023-00	RES,CHIP	82 5% 1/10W
R161	1-208-794-11	METAL CHIP	3.3K 0.50% 1/10W	R232	1-216-049-91	RES,CHIP	1K 5% 1/10W
R162	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W	R233	1-216-025-91	RES,CHIP	100 5% 1/10W
R163	1-216-033-00	RES,CHIP	220 5% 1/10W	R234	1-216-113-00	RES,CHIP	470K 5% 1/10W
R164	1-216-089-91	RES,CHIP	47K 5% 1/10W	R235	1-216-025-91	RES,CHIP	100 5% 1/10W
R165	1-216-089-91	RES,CHIP	47K 5% 1/10W	R236	1-216-113-00	RES,CHIP	470K 5% 1/10W
R166	1-216-033-00	RES,CHIP	220 5% 1/10W	R237	1-216-295-91	SHORT	0 5% 1/10W
R167	1-216-043-91	RES,CHIP	560 5% 1/10W	R238	1-216-089-91	RES,CHIP	47K 5% 1/10W
R168	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R239	1-216-039-00	RES,CHIP	390 5% 1/10W
R169	1-216-033-00	RES,CHIP	220 5% 1/10W	R240	1-216-295-91	SHORT	0 5% 1/10W
R170	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W	R241	1-216-089-91	RES,CHIP	47K 5% 1/10W
R171	1-216-025-91	RES,CHIP	100 5% 1/10W	R242	1-216-039-00	RES,CHIP	390 5% 1/10W
R172	1-216-033-00	RES,CHIP	220 5% 1/10W	R243	1-216-295-91	SHORT	0 5% 1/10W
R174	1-216-049-91	RES,CHIP	1K 5% 1/10W	R244	1-216-041-00	RES,CHIP	470 5% 1/10W
R175	1-216-049-91	RES,CHIP	1K 5% 1/10W	R245	1-216-049-91	RES,CHIP	1K 5% 1/10W
R176	1-216-049-91	RES,CHIP	1K 5% 1/10W	R246	1-216-295-91	SHORT	0 5% 1/10W
R177	1-208-811-11	METAL CHIP	16K 0.50% 1/10W	R247	1-216-041-00	RES,CHIP	470 5% 1/10W
R178	1-216-081-00	RES,CHIP	22K 5% 1/10W	R248	1-216-025-91	RES,CHIP	100 5% 1/10W
R179	1-216-041-00	RES,CHIP	470 5% 1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R250	1-216-295-91	SHORT	0	R333	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R251	1-216-049-91	RES,CHIP	1K 5%	R334	1-216-041-00	RES,CHIP	470 5% 1/10W
R252	1-216-073-00	RES,CHIP	10K 5%	R335	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R253	1-216-049-91	RES,CHIP	1K 5%	R336	1-216-109-00	RES,CHIP	330K 5% 1/10W
R254	1-216-041-00	RES,CHIP	470 5%	R337	1-216-025-91	RES,CHIP	100 5% 1/10W
R255	1-216-025-91	RES,CHIP	100 5%	R338	1-216-049-91	RES,CHIP	1K 5% 1/10W
R256	1-216-025-91	RES,CHIP	100 5%	R339	1-216-049-91	RES,CHIP	1K 5% 1/10W
R257	1-216-073-00	RES,CHIP	10K 5%	R340	1-216-025-91	RES,CHIP	100 5% 1/10W
R258	1-216-049-91	RES,CHIP	1K 5%	R341	1-216-025-91	RES,CHIP	100 5% 1/10W
R259	1-216-061-00	RES,CHIP	3.3K 5%	R342	1-216-049-91	RES,CHIP	1K 5% 1/10W
R260	1-216-033-00	RES,CHIP	220 5%	R343	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R261	1-216-041-00	RES,CHIP	470 5%	R344	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R262	1-216-025-91	RES,CHIP	100 5%	R347	1-216-025-91	RES,CHIP	100 5% 1/10W
R263	1-216-049-91	RES,CHIP	1K 5%	R348	1-216-025-91	RES,CHIP	100 5% 1/10W
R264	1-216-089-91	RES,CHIP	47K 5%	R349	1-216-025-91	RES,CHIP	100 5% 1/10W
R265	1-216-065-91	RES,CHIP	4.7K 5%	R350	1-216-041-00	RES,CHIP	470 5% 1/10W
R266	1-216-081-00	RES,CHIP	22K 5%	R351	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R267	1-216-065-91	RES,CHIP	4.7K 5%	R352	1-216-077-91	RES,CHIP	15K 5% 1/10W
R268	1-216-089-91	RES,CHIP	47K 5%	R353	1-216-049-91	RES,CHIP	1K 5% 1/10W
R269	1-216-089-91	RES,CHIP	47K 5%	R354	1-216-295-91	SHORT	0
R270	1-216-022-00	RES,CHIP	75 5%	R355	1-216-093-91	RES,CHIP	68K 5% 1/10W
R271	1-216-022-00	RES,CHIP	75 5%	R356	1-216-133-00	RES,CHIP	3.3M 5% 1/10W
R272	1-216-022-00	RES,CHIP	75 5%	R358	1-216-105-91	RES,CHIP	220K 5% 1/10W
R273	1-216-022-00	RES,CHIP	75 5%	R359	1-216-295-91	SHORT	0
R274	1-216-089-91	RES,CHIP	47K 5%	R360	1-216-129-00	RES,CHIP	2.2M 5% 1/10W
R280	1-216-049-91	RES,CHIP	1K 5%	R361	1-216-129-00	RES,CHIP	2.2M 5% 1/10W
R281	1-216-089-91	RES,CHIP	47K 5%	R362	1-216-049-91	RES,CHIP	1K 5% 1/10W
R282	1-216-093-91	RES,CHIP	68K 5%	R364	1-216-049-91	RES,CHIP	1K 5% 1/10W
R283	1-216-065-91	RES,CHIP	4.7K 5%	R366	1-216-073-00	RES,CHIP	10K 5% 1/10W
R284	1-216-089-91	RES,CHIP	47K 5%	R367	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R285	1-216-093-91	RES,CHIP	68K 5%	R368	1-216-025-91	RES,CHIP	100 5% 1/10W
R286	1-216-065-91	RES,CHIP	4.7K 5%	R370	1-216-295-91	SHORT	0
R287	1-216-041-00	RES,CHIP	470 5%	R371	1-216-033-00	RES,CHIP	220 5% 1/10W
R288	1-216-049-91	RES,CHIP	1K 5%	R373	1-216-049-91	RES,CHIP	1K 5% 1/10W
R289	1-216-033-00	RES,CHIP	220 5%	R374	1-216-041-00	RES,CHIP	470 5% 1/10W
R290	1-216-033-00	RES,CHIP	220 5%	R375	1-216-049-91	RES,CHIP	1K 5% 1/10W
R291	1-216-057-00	RES,CHIP	2.2K 5%	R376	1-216-081-00	RES,CHIP	22K 5% 1/10W
R292	1-216-057-00	RES,CHIP	2.2K 5%	R377	1-216-049-91	RES,CHIP	1K 5% 1/10W
R293	1-216-089-91	RES,CHIP	47K 5%	R378	1-208-811-11	METAL CHIP	16K 0.50% 1/10W
R294	1-216-097-91	RES,CHIP	100K 5%	R379	1-216-041-00	RES,CHIP	470 5% 1/10W
R295	1-216-049-91	RES,CHIP	1K 5%	R392	1-216-049-91	RES,CHIP	1K 5% 1/10W
R296	1-216-049-91	RES,CHIP	1K 5%	R401	1-216-033-00	RES,CHIP	220 5% 1/10W
R297	1-216-033-00	RES,CHIP	220 5%	R402	1-216-073-00	RES,CHIP	10K 5% 1/10W
R298	1-216-033-00	RES,CHIP	220 5%	R403	1-216-081-00	RES,CHIP	22K 5% 1/10W
R300	1-216-025-91	RES,CHIP	100 5%	R404	1-216-083-00	RES,CHIP	27K 5% 1/10W
R301	1-216-033-00	RES,CHIP	220 5%	R405	1-216-073-00	RES,CHIP	10K 5% 1/10W
R302	1-216-295-91	SHORT	0	R406	1-216-073-00	RES,CHIP	10K 5% 1/10W
R303	1-216-295-91	SHORT	0	R407	1-216-073-00	RES,CHIP	10K 5% 1/10W
R304	1-216-129-00	RES,CHIP	2.2M 5%	R408	1-216-049-91	RES,CHIP	1K 5% 1/10W
R305	1-216-033-00	RES,CHIP	220 5%	R409	1-216-049-91	RES,CHIP	1K 5% 1/10W
R308	1-216-025-91	RES,CHIP	100 5%	R410	1-216-081-00	RES,CHIP	22K 5% 1/10W
R309	1-216-033-00	RES,CHIP	220 5%	R411	1-216-081-00	RES,CHIP	22K 5% 1/10W
R310	1-216-033-00	RES,CHIP	220 5%	R1001	1-216-025-91	RES,CHIP	100 5% 1/10W
R314	1-216-295-91	SHORT	0	R1002	1-216-025-91	RES,CHIP	100 5% 1/10W
R315	1-216-295-91	SHORT	0	R1006	1-216-049-91	RES,CHIP	1K 5% 1/10W
R316	1-216-033-00	RES,CHIP	220 5%	R1007	1-216-073-00	RES,CHIP	10K 5% 1/10W
R317	1-216-033-00	RES,CHIP	220 5%	R1008	1-216-121-91	RES,CHIP	1M 5% 1/10W
R320	1-216-025-91	RES,CHIP	100 5%	R1009	1-216-121-91	RES,CHIP	1M 5% 1/10W
R321	1-216-025-91	RES,CHIP	100 5%	R1010	1-216-295-91	SHORT	0
R322	1-216-025-91	RES,CHIP	100 5%	R1011	1-216-073-00	RES,CHIP	10K 5% 1/10W
R323	1-216-033-00	RES,CHIP	220 5%	R1012	1-216-041-00	RES,CHIP	470 5% 1/10W
R325	1-216-089-91	RES,CHIP	47K 5%	R1014	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R326	1-216-025-91	RES,CHIP	100 5%	R1015	1-216-041-00	RES,CHIP	470 5% 1/10W
R327	1-216-025-91	RES,CHIP	100 5%	R1016	1-216-073-00	RES,CHIP	10K 5% 1/10W
R329	1-216-089-91	RES,CHIP	47K 5%	R1017	1-216-295-91	SHORT	0
R330	1-216-025-91	RES,CHIP	100 5%	R1020	1-216-097-91	RES,CHIP	100K 5% 1/10W
R331	1-216-059-00	RES,CHIP	2.7K 5%	R1021	1-216-029-00	RES,CHIP	150 5% 1/10W
R332	1-216-049-91	RES,CHIP	1K 5%				

KP-41DS1U/PZ1B/PZ1D/PZ1E

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1022	1-216-029-00	RES,CHIP	150 5% 1/10W	R2826	1-216-033-00	RES,CHIP	220 5% 1/10W
R1023	1-216-029-00	RES,CHIP	150 5% 1/10W	R2827	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1024	1-216-045-00	RES,CHIP	680 5% 1/10W	R2829	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1026	1-216-025-91	RES,CHIP	100 5% 1/10W	R2830	1-216-039-00	RES,CHIP	390 5% 1/10W
R1027	1-216-025-91	RES,CHIP	100 5% 1/10W	R2831	1-216-295-91	SHORT	0
R1028	1-216-025-91	RES,CHIP	100 5% 1/10W	R2832	1-216-097-91	RES,CHIP	100K 5% 1/10W
R2401	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2833	1-216-045-00	RES,CHIP	680 5% 1/10W
R2403	1-216-097-91	RES,CHIP	100K 5% 1/10W	R2834	1-216-081-00	RES,CHIP	22K 5% 1/10W
R2404	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2835	1-216-083-00	RES,CHIP	27K 5% 1/10W
R2405	1-208-794-11	METAL CHIP	3.3K 0.50% 1/10W	R2836	1-216-033-00	RES,CHIP	220 5% 1/10W
R2406	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2837	1-216-081-00	RES,CHIP	22K 5% 1/10W
R2407	1-208-772-11	METAL CHIP	390 0.50% 1/10W	R2838	1-216-081-00	RES,CHIP	22K 5% 1/10W
R2408	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2839	1-216-081-00	RES,CHIP	22K 5% 1/10W
R2409	1-216-033-00	RES,CHIP	220 5% 1/10W	R2840	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2410	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2841	1-208-784-11	METAL CHIP	1.2K 0.50% 1/10W
R2411	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2842	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2412	1-208-764-11	METAL CHIP	180 0.50% 1/10W	R2843	1-208-782-11	METAL CHIP	1K 0.50% 1/10W
R2413	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2844	1-216-295-91	SHORT	0
R2414	1-216-033-00	RES,CHIP	220 5% 1/10W	R2846	1-216-033-00	RES,CHIP	220 5% 1/10W
R2415	1-216-103-00	RES,CHIP	180K 5% 1/10W	R2848	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2416	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2850	1-216-033-00	RES,CHIP	220 5% 1/10W
R2417	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R2851	1-216-025-91	RES,CHIP	100 5% 1/10W
R2418	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2852	1-216-097-91	RES,CHIP	100K 5% 1/10W
R2419	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2853	1-216-037-00	RES,CHIP	330 5% 1/10W
R2420	1-208-793-11	METAL CHIP	3K 0.50% 1/10W	R2854	1-216-037-00	RES,CHIP	330 5% 1/10W
R2421	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W	R2855	1-216-097-91	RES,CHIP	100K 5% 1/10W
R2422	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2856	1-216-295-91	SHORT	0
R2423	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2857	1-216-295-91	SHORT	0
R2424	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2858	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2425	1-208-780-11	METAL CHIP	820 0.50% 1/10W	R2859	1-216-295-91	SHORT	0
R2426	1-216-025-91	RES,CHIP	100 5% 1/10W	R2860	1-216-025-91	RES,CHIP	100 5% 1/10W
R2427	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2861	1-216-027-00	RES,CHIP	120 5% 1/10W
R2428	1-216-033-00	RES,CHIP	220 5% 1/10W	R2862	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2429	1-216-025-91	RES,CHIP	100 5% 1/10W	R2863	1-216-005-00	RES,CHIP	15 5% 1/10W
R2430	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2864	1-216-005-00	RES,CHIP	15 5% 1/10W
R2431	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2865	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2432	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2866	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2433	1-216-025-91	RES,CHIP	100 5% 1/10W	R2867	1-216-025-91	RES,CHIP	100 5% 1/10W
R2434	1-216-025-91	RES,CHIP	100 5% 1/10W	R2868	1-216-033-00	RES,CHIP	220 5% 1/10W
R2435	1-216-025-91	RES,CHIP	100 5% 1/10W	R2869	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2436	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2871	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2437	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2872	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2438	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2873	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2439	1-208-775-11	METAL CHIP	510 0.50% 1/10W	R2874	1-216-033-00	RES,CHIP	220 5% 1/10W
R2440	1-208-766-11	METAL CHIP	220 0.50% 1/10W	R2875	1-216-033-00	RES,CHIP	220 5% 1/10W
R2801	1-216-025-91	RES,CHIP	100 5% 1/10W	R2879	1-216-041-00	RES,CHIP	470 5% 1/10W
R2802	1-216-033-00	RES,CHIP	220 5% 1/10W	R2880	1-216-041-00	RES,CHIP	470 5% 1/10W
R2804	1-216-295-91	SHORT	0	R2882	1-216-033-00	RES,CHIP	220 5% 1/10W
R2805	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R2883	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2806	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2884	1-216-045-00	RES,CHIP	680 5% 1/10W
R2808	1-216-025-91	RES,CHIP	100 5% 1/10W	R2885	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R2809	1-216-025-91	RES,CHIP	100 5% 1/10W	R2886	1-216-035-00	RES,CHIP	270 5% 1/10W
R2810	1-216-105-91	RES,CHIP	220K 5% 1/10W	R2887	1-216-037-00	RES,CHIP	330 5% 1/10W
R2811	1-216-295-91	SHORT	0	R2888	1-216-085-00	RES,CHIP	33K 5% 1/10W
R2812	1-216-295-91	SHORT	0	R2889	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2813	1-216-295-91	SHORT	0	R2890	1-216-089-91	RES,CHIP	47K 5% 1/10W
R2814	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2891	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R2815	1-216-295-91	SHORT	0	R2892	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2816	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2893	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2817	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2894	1-216-041-00	RES,CHIP	470 5% 1/10W
R2818	1-216-033-00	RES,CHIP	220 5% 1/10W	R2895	1-216-047-91	RES,CHIP	820 5% 1/10W
R2819	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2896	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2820	1-216-295-91	SHORT	0	R2897	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2821	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2899	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R2822	1-216-033-00	RES,CHIP	220 5% 1/10W	R2900	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2823	1-216-089-91	RES,CHIP	47K 5% 1/10W	R2901	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2824	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2902	1-216-043-91	RES,CHIP	560 5% 1/10W
R2825	1-216-025-91	RES,CHIP	100 5% 1/10W				

The components identified by shading and mark Δ are critical for safety.
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KP-41DS1U/PZ1B/PZ1D/PZ1E

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2903	1-216-041-00	RES,CHIP 470	5% 1/10W	C6042	1-104-665-11	ELECT 100μF	20% 25V
R2904	1-216-049-91	RES,CHIP 1K	5% 1/10W	C6044	1-107-641-11	ELECT 220μF	20% 160V
R2905	1-208-802-11	METAL CHIP 6.8K	0.50% 1/10W	C6045	1-104-665-11	ELECT 100μF	20% 25V
R2906	1-216-025-91	RES,CHIP 100	5% 1/10W	C6046	1-104-665-11	ELECT 100μF	20% 25V
R2908	1-216-295-91	SHORT 0		C6047	1-102-112-00	CERAMIC 330pF	10% 50V
R2909	1-216-049-91	RES,CHIP 1K	5% 1/10W	C6048	1-126-960-11	ELECT 1μF	20% 50V
R2910	1-216-033-00	RES,CHIP 220	5% 1/10W	C6049	1-136-165-00	MYLAR 0.1μF	5% 50V
R2911	1-216-033-00	RES,CHIP 220	5% 1/10W	C6050	1-109-954-11	ELECT 0.47μF	20% 160V
R2912	1-216-295-91	SHORT 0		C6051	1-126-935-11	ELECT 470μF	20% 6.3V
R2914	1-216-025-91	RES,CHIP 100	5% 1/10W	C6052	1-164-625-11	CERAMIC 680pF	10% 500V
R2915	1-216-025-91	RES,CHIP 100	5% 1/10W	C6053	1-164-625-11	CERAMIC 680pF	10% 500V
<TUNER>				C6055	1-107-641-11	ELECT 220μF	20% 160V
TU101	Δ 1-693-340-14	TUNER/VIF, TVF01-FR (KP41-DS1U)		C6058	1-102-114-00	CERAMIC 470pF	10% 50V
TU101	Δ 1-693-340-23	TUNER/VIF, TVF01-FR (KP-41PZ1B/PZ1D/PZ1E)		C6059	1-102-114-00	CERAMIC 470pF	10% 50V
<CRYSTAL>				C6060	1-102-114-00	CERAMIC 470pF	10% 50V
X1	1-767-154-21	VIBRATOR, CERAMIC		C6061	1-102-114-00	CERAMIC 470pF	10% 50V
X201	1-781-148-21	VIBRATOR, CRYSTAL		C6062	1-102-114-00	CERAMIC 470pF	10% 50V
X301	1-567-504-11	OSCILLATOR, CRYSTAL		C6063	1-102-114-00	CERAMIC 470pF	10% 50V
X302	1-567-505-11	OSCILLATOR, CRYSTAL		C6064	1-161-964-51	CERAMIC 0.0047μF	250V
X303	1-767-127-11	VIBRATOR, CERAMIC		C6065	1-161-964-51	CERAMIC 0.0047μF	250V
X1001	1-760-551-21	VIBRATOR, CERAMIC		C6501	1-117-802-11	ELECT 180μF	20% 450V
*****				(KP-41DS1U)			
* A-1636-047-A G BOARD, COMPLETE (KP41-DS1U)				C6502	1-107-824-11	CERAMIC 220pF	5% 1KV
* A-1636-048-A G BOARD, COMPLETE (KP-41PZ1B/PZ1D/PZ1E)				C6503	1-107-824-11	CERAMIC 220pF	5% 1KV
*****				C6504	1-136-157-00	MYLAR 0.022μF	5% 50V
* 1-533-725-11 HOLDER, FUSE				C6505	1-136-169-00	MYLAR 0.22μF	5% 50V
* 4-374-846-01 COVER, CAPACITOR, CAP TYPE				C6506	1-136-169-00	MYLAR 0.22μF	5% 50V
4-382-854-11 SCREW (M3X10), P, SW (+)				C6507	1-136-164-00	MYLAR 0.082μF	5% 50V
<CAPACITOR>				C6508	1-136-164-00	MYLAR 0.082μF	5% 50V
C6001	Δ 1-119-894-51	CERAMIC 2200pF	20% 250V	C6509	1-107-824-11	CERAMIC 220pF	5% 1KV
C6002	Δ 1-104-706-51	MYLAR 0.22μF	20% 250V	C6510	1-136-165-00	MYLAR 0.1μF	5% 50V
C6003	1-126-943-11	ELECT 2200μF	20% 25V	C6511	1-117-631-21	FILM 3300pF	3% 1.2KV
C6004	1-104-665-11	ELECT 100μF	20% 25V	C6512	1-126-965-11	ELECT 22μF	20% 50V
C6005	1-161-964-51	CERAMIC 0.0047μF	250V	C6513	1-126-967-11	ELECT 47μF	20% 50V
C6006	Δ 1-104-706-51	MYLAR 0.22μF	20% 250V	C6514	1-126-936-11	ELECT 3300μF	20% 16V
C6007	Δ 1-119-894-51	CERAMIC 2200pF	20% 250V	C6515	1-126-936-11	ELECT 3300μF	20% 16V
C6008	1-113-912-11	CERAMIC 0.0047μF	20% 250V	C6516	1-126-941-11	ELECT 470μF	20% 25V
C6009	1-161-964-51	CERAMIC 0.0047μF	250V	C6517	1-126-967-11	ELECT 47μF	20% 50V
C6010	1-161-964-51	CERAMIC 0.0047μF	250V	C6518	1-126-941-11	ELECT 470μF	20% 25V
C6011	1-107-678-11	ELECT 4.7μF	20% 450V	C6519	1-126-941-11	ELECT 470μF	20% 25V
C6012	1-102-112-00	CERAMIC 330pF	10% 50V	C6520	1-126-967-11	ELECT 47μF	20% 50V
C6018	1-117-753-11	ELECT(BLOCK) 470μF	20% 450V	C6522	1-161-964-51	CERAMIC 0.0047μF	250V
C6019	1-104-664-11	ELECT 47μF	20% 25V	C6523	1-161-964-51	CERAMIC 0.0047μF	250V
C6020	1-104-665-11	ELECT 100μF	20% 25V	C6525	1-126-957-11	ELECT 0.22μF	20% 50V
C6021	1-126-961-11	ELECT 2.2μF	20% 50V	<CONNECTOR>			
C6026	1-126-935-11	ELECT 470μF	20% 16V	CN6001	1-695-915-11	TAB (CONTACT)	
C6030	1-115-405-11	FILM 0.039μF	3% 1KV	CN6002	1-695-915-11	TAB (CONTACT)	
C6031	1-126-964-11	ELECT 10μF	20% 50V				
C6032	1-126-964-11	ELECT 10μF	20% 50V				
C6033	1-136-479-11	FILM 0.001μF	2% 50V				
C6034	1-101-810-00	CERAMIC 100pF	5% 500V				
C6035	1-101-810-00	CERAMIC 100pF	5% 500V				
C6036	1-126-768-11	ELECT 2200μF	20% 16V				
C6037	1-126-943-11	ELECT 2200μF	20% 25V				
C6038	1-128-548-11	ELECT 4700μF	20% 25V				
C6039	1-126-972-11	ELECT 1000μF	20% 50V				
C6040	1-126-972-11	ELECT 1000μF	20% 50V				
C6041	1-126-960-11	ELECT 1μF	20% 50V				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CN6004	1-695-915-11	TAB (CONTACT)		<IC>			
CN6005	*1-580-843-11	PIN, CONNECTOR (POWER)		IC6001	Δ 8-759-468-89	IC TOP209P	
CN6006	*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P		IC6004	8-759-537-24	IC KA7500B	
CN6008	*1-564-509-11	PLUG, CONNECTOR 6P		IC6005	Δ 8-749-924-35	PHOTO COUPLER ON3171-R	
CN6009	1-695-915-11	TAB (CONTACT)		IC6006	Δ 8-749-924-35	PHOTO COUPLER ON3171-R	
CN6011	*1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P		IC6007	8-759-185-47	IC IR2112	
CN6012	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		IC6008	8-749-920-61	IC SE-135N	
CN6013	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		IC6501	8-729-045-61	TRANSISTOR MX0542AB-F (KP-41DS1U)	
CN6502	*1-564-510-11	PLUG, CONNECTOR 7P		IC6502	8-759-908-15	IC TL431CLP (KP-41DS1U)	
CN6503	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		<COIL>			
<DIODE>				L6002	1-412-525-31	INDUCTOR	10 μ H
D6001	8-719-068-00	DIODE ERC04-06SE		L6003	1-412-525-31	INDUCTOR	10 μ H
D6002	8-719-052-91	DIODE D4SBS4-F		L6004	1-412-525-31	INDUCTOR	10 μ H
D6003	8-719-510-53	DIODE D4SB60L		L6005	1-412-525-31	INDUCTOR	10 μ H
D6004	8-719-057-96	DIODE D10SC6M-4012		L6006	1-412-525-31	INDUCTOR	10 μ H
D6005	8-719-982-27	DIODE MTZJ-33C		L6008	1-412-533-21	INDUCTOR	47 μ H
D6006	8-719-068-00	DIODE ERC04-06SE		L6009	1-412-523-41	INDUCTOR	6.8 μ H
D6007	8-719-068-00	DIODE ERC04-06SE		L6010	1-412-523-41	INDUCTOR	6.8 μ H
D6008	8-719-073-23	ZENER DIODE ST02D-200TA		L6011	1-412-525-31	INDUCTOR	10 μ H
D6012	8-719-991-33	DIODE ISS133T-77		L6501	1-412-525-31	INDUCTOR	10 μ H (KP-41DS1U)
D6013	8-719-110-03	ZENER DIODE RD7.5ESB2		L6502	1-412-525-31	INDUCTOR	10 μ H (KP-41DS1U)
D6014	8-719-991-33	DIODE ISS133T-77		L6503	1-412-525-31	INDUCTOR	10 μ H (KP-41DS1U)
D6017	8-719-063-73	DIODE D1NL20U-TR		<IC LINK>			
D6018	8-719-991-33	DIODE ISS133T-77		PS6001	Δ 1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)	
D6025	8-719-063-73	DIODE D1NL20U-TR		PS6002	Δ 1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)	
D6032	8-719-991-33	DIODE ISS133T-77		PS6003	Δ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
D6033	8-719-991-33	DIODE ISS133T-77		PS6501	Δ 1-801-549-21	PROTECTOR, MODULE (KP-41DS1U)	
D6034	8-719-991-33	DIODE ISS133T-77		PS6502	Δ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC) (KP-41DS1U)	
D6035	8-719-018-83	DIODE D2S4M		PS6503	Δ 1-801-550-21	PROTECTOR, MODUL (KP-41DS1U)	
D6036	8-719-018-83	DIODE D2S4M		PS6504	Δ 1-532-637-00	LINK, IC (1A/150V) (KP-41DS1U)	
D6037	8-719-031-78	DIODE S2L40F		PS6505	Δ 1-801-550-21	PROTECTOR, MODUL (KP-41DS1U)	
D6038	8-719-312-47	DIODE RBA-406B		<TRANSISTOR>			
D6042	8-719-979-64	DIODE UF4005PKG23		Q6001	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D6043	8-719-110-53	ZENER DIODE RD20ESB2		Q6002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D6044	8-719-979-64	DIODE UF4005PKG23		Q6003	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D6045	8-719-110-53	ZENER DIODE RD20ESB2		Q6005	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D6046	8-719-110-53	ZENER DIODE RD20ESB2		Q6009	8-729-140-97	TRANSISTOR 2SB734-34	
D6047	8-719-110-53	ZENER DIODE RD20ESB2		Q6010	8-729-922-37	TRANSISTOR 2SD2144S-UVW	
D6048	8-719-921-88	DIODE MTZJ-13B		Q6011	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D6049	8-719-031-78	DIODE S2L40F		Q6012	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D6050	8-719-991-33	DIODE ISS133T-77		Q6013	8-729-820-82	TRANSISTOR 2SA1208-S	
D6051	8-719-991-33	DIODE ISS133T-77		Q6014	8-729-028-10	TRANSISTOR IRFI744G-LF	
D6501	8-719-510-35	DIODE D2SBA60F (KP-41DS1U)		Q6015	8-729-028-10	TRANSISTOR IRFI744G-LF	
D6504	8-719-991-33	DIODE ISS133T-77 (KP-41DS1U)		Q6501	8-729-119-78	TRANSISTOR 2SC2785-HFE (KP-41DS1U)	
D6505	8-719-991-33	DIODE ISS133T-77 (KP-41DS1U)		Q6502	8-729-026-39	TRANSISTOR 2SA933AS-QT (KP-41DS1U)	
D6506	8-719-110-17	ZENER DIODE RD10ESB2 (KP-41DS1U)		Q6503	8-729-119-78	TRANSISTOR 2SC2785-HFE (KP-41DS1U)	
D6507	8-719-063-73	DIODE D1NL20U-TR (KP-41DS1U)		Q6504	8-729-922-37	TRANSISTOR 2SD2144S-UVW (KP-41DS1U)	
D6508	8-719-510-12	DIODE D10SC4M (KP-41DS1U)		Q6505	8-729-119-76	TRANSISTOR 2SA1175-HFE (KP-41DS1U)	
D6509	8-719-510-12	DIODE D10SC4M (KP-41DS1U)		Q6506	8-729-119-78	TRANSISTOR 2SC2785-HFE (KP-41DS1U)	
D6510	8-719-510-12	DIODE D10SC4M (KP-41DS1U)		<RESISTOR>			
D6511	8-719-063-73	DIODE D1NL20U-TR (KP-41DS1U)		R6000	Δ 1-202-719-00	SOLID	1M 20% 1/2W
D6512	8-719-991-33	DIODE ISS133T-77 (KP-41DS1U)		R6001	1-249-417-11	CARBON	1K 5% 1/4W
D6514	8-719-991-33	DIODE ISS133T-77 (KP-41DS1U)		R6002	Δ 1-218-265-11	METAL	8.2M 5% 1W
D6515	8-719-110-53	ZENER DIODE RD20ESB2 (KP-41DS1U)		R6008	1-247-881-00	CARBON	120K 5% 1/4W
D6516	8-719-991-33	DIODE ISS133T-77 (KP-41DS1U)		R6009	1-260-128-91	CARBON	270K 5% 1/2W
D6517	8-719-991-33	DIODE ISS133T-77 (KP-41DS1U)		R6010	1-260-128-91	CARBON	270K 5% 1/2W
<FUSE>				R6013	1-202-968-11	CEMENTED	1.2 5% 10W
F6001	Δ 1-576-232-11	FUSE (H.B.C.) 5A/250V		R6014	1-249-437-11	CARBON	47K 5% 1/4W
<FERRITE BEAD>				R6018	1-249-437-11	CARBON	47K 5% 1/4W
FB6009	1-410-397-21	FERRITE	1.1 μ H	R6019	1-249-437-11	CARBON	47K 5% 1/4W

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KP-41DS1U/PZ1B/PZ1D/PZ1E

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK	
R6022	1-247-791-91	CARBON	22	5%	1/4W	R6515	1-247-807-31	CARBON	100	5%	1/4W	
R6024	1-205-998-11	CEMENTED	1	5%	10W						(KP-41DS1U)	
R6026	1-205-998-11	CEMENTED	1	5%	10W	R6516	1-249-429-11	CARBON	10K	5%	1/4W	
R6027	1-249-425-11	CARBON	4.7K	5%	1/4W						(KP-41DS1U)	
R6032	Δ1-202-933-61	FUSIBLE	0.1	10%	1/2W	F	R6517	1-249-417-11	CARBON	1K	5%	1/4W
											(KP-41DS1U)	
R6034	1-247-895-91	CARBON	470K	5%	1/4W							
R6045	1-215-427-00	METAL	1.8K	1%	1/4W	R6518	1-249-377-11	CARBON	0.47	5%	1/4W	
R6046	1-247-863-91	CARBON	22K	5%	1/4W						(KP-41DS1U)	
R6047	1-249-437-11	CARBON	47K	5%	1/4W	R6519	1-249-425-11	CARBON	4.7K	5%	1/4W	
R6048	1-249-425-11	CARBON	4.7K	5%	1/4W						(KP-41DS1U)	
R6049	1-249-429-11	CARBON	10K	5%	1/4W	R6520	1-249-425-11	CARBON	4.7K	5%	1/4W	
R6050	1-249-417-11	CARBON	1K	5%	1/4W						(KP-41DS1U)	
R6051	1-215-444-00	METAL	9.1K	1%	1/4W	R6521	1-215-858-00	METAL OXIDE	15	5%	1W	
R6052	1-249-417-11	CARBON	1K	5%	1/4W						(KP-41DS1U)	
R6053	1-249-417-11	CARBON	1K	5%	1/4W	R6522	1-240-251-11	CMT,MELF	6.8	5%	10W	
											(KP-41DS1U)	
R6054	1-249-417-11	CARBON	1K	5%	1/4W	R6523	1-215-445-00	METAL	10K	1%	1/4W	
R6055	1-249-425-11	CARBON	4.7K	5%	1/4W						(KP-41DS1U)	
R6056	1-249-421-11	CARBON	2.2K	5%	1/4W	R6524	1-215-447-00	METAL	12K	1%	1/4W	
R6057	1-249-429-11	CARBON	10K	5%	1/4W						(KP-41DS1U)	
R6058	1-249-429-11	CARBON	10K	5%	1/4W	R6526	1-249-429-11	CARBON	10K	5%	1/4W	
											(KP-41DS1U)	
R6059	1-249-425-11	CARBON	4.7K	5%	1/4W	R6527	1-249-429-11	CARBON	10K	5%	1/4W	
R6060	1-249-413-11	CARBON	470	5%	1/4W	F					(KP-41DS1U)	
R6061	1-215-477-00	METAL	220K	1%	1/4W	R6528	1-249-413-11	CARBON	470	5%	1/4W	
R6062	1-249-417-11	CARBON	1K	5%	1/4W	F					(KP-41DS1U)	
R6063	1-249-397-11	CARBON	22	5%	1/4W	F						
R6064	1-249-397-11	CARBON	22	5%	1/4W	F					(KP-41DS1U)	
R6065	1-249-441-11	CARBON	100K	5%	1/4W	R6530	1-216-357-00	METAL OXIDE	4.7	5%	1W	
R6066	1-216-366-00	METAL OXIDE	0.56	5%	2W	F					(KP-41DS1U)	
R6067	1-249-425-11	CARBON	4.7K	5%	1/4W	F						
R6068	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R6531	1-249-429-11	CARBON	10K	5%	1/4W
											(KP-41DS1U)	
R6069	1-215-477-00	METAL	220K	1%	1/4W							
R6070	1-249-417-11	CARBON	1K	5%	1/4W	F						
R6071	1-215-453-00	METAL	22K	1%	1/4W		<RELAY>					
R6072	1-215-476-00	METAL	200K	1%	1/4W							
R6073	1-249-413-11	CARBON	470	5%	1/4W		RY6001 Δ1-755-266-11	RELAY, AC POWER				
							RY6501 Δ1-755-245-11	RELAY, AC POWER			(KP-41DS1U)	
R6074	1-215-858-00	METAL OXIDE	15	5%	1W	F						
R6075	1-216-358-11	METAL OXIDE	5.6	5%	1W	F						
R6079	1-249-377-11	CARBON	0.47	5%	1/4W	F		<TRANSFORMER>				
R6080	1-249-377-11	CARBON	0.47	5%	1/4W	F	T6001 Δ1-424-682-11	TRANSFORMER, LINE FILTER				
R6081	1-249-377-11	CARBON	0.47	5%	1/4W	F	T6004 Δ1-431-732-21	TRANSFORMER, CONVERTER (SRT)				
							T6005 Δ1-429-807-12	TRANSFORMER, CONVERTER (PIT)				
R6082	1-249-377-11	CARBON	0.47	5%	1/4W	F	T6501 Δ1-431-616-11	TRANSFORMER, CONVERTER			(KP-41DS1U)	
R6083	1-249-377-11	CARBON	0.47	5%	1/4W	F						
R6084	1-249-377-11	CARBON	0.47	5%	1/4W	F						
R6085	Δ1-212-849-61	FUSIBLE	4.7	5%	1/4W	F	T6502 Δ1-433-490-11	TRANSFORMER, CONVERTER (PIT)			(KP-41DS1U)	
R6086	1-249-429-11	CARBON	10K	5%	1/4W							
R6502	1-260-127-11	CARBON	220K	5%	1/2W							
											(KP-41DS1U)	
R6503	1-260-127-11	CARBON	220K	5%	1/2W			<VARISTOR>				
											(KP-41DS1U)	
R6504	Δ1-220-926-11	FUSIBLE	0.47	10%	1/2W	F	VR6000 Δ1-801-073-31	VARISTOR TNR14V471K660				
							VR6001 Δ1-803-614-11	VARISTOR				
R6505	1-260-127-11	CARBON	220K	5%	1/2W							
											(KP-41DS1U)	
R6507	1-260-127-11	CARBON	220K	5%	1/2W							
											(KP-41DS1U)	

R6508	1-249-391-11	CARBON	6.8	5%	1/4W			* A-1638-133-A CR BOARD, COMPLETE				

R6509	1-249-391-11	CARBON	6.8	5%	1/4W							
											(KP-41DS1U)	
R6510	1-215-428-00	METAL	2K	1%	1/4W							
											(KP-41DS1U)	
R6511	1-249-437-11	CARBON	47K	5%	1/4W			<CAPACITOR>				
											(KP-41DS1U)	
R6512	1-215-429-00	METAL	2.2K	1%	1/4W		C702 1-102-113-00	CERAMIC	390pF	10%	50V	
							C703 1-104-664-11	ELECT	47μF	20%	25V	
							C705 1-161-754-00	CERAMIC	0.001μF	10%	2KV	
							C708 1-101-880-00	CERAMIC	47pF	5%	50V	
R6513	1-249-417-11	CARBON	1K	5%	1/4W		C709 1-162-115-00	CERAMIC	330pF	10%	2KV	
											(KP-41DS1U)	
R6514	1-249-429-11	CARBON	10K	5%	1/4W		C710 1-102-114-00	CERAMIC	470pF	10%	50V	
							C712 1-107-662-11	ELECT	22μF	20%	250V	
							C713 1-104-664-11	ELECT	47μF	20%	25V	

KP-41DS1U/PZ1B/PZ1D/PZ1E

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REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
<CONNECTOR>							C735	1-161-830-00	CERAMIC	0.0047μF		500V	
CN701	1-695-915-11	TAB (CONTACT)					C736	1-162-115-00	CERAMIC	330pF	10%	2KV	
CN702	* 1-564-511-11	PLUG, CONNECTOR 8P					C737	1-107-662-11	ELECT	22μF	20%	250V	
CN703	* 1-564-510-11	PLUG, CONNECTOR 7P					C738	1-101-880-00	CERAMIC	47pF	5%	50V	
CN704	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P					C739	1-104-664-11	ELECT	47μF	20%	25V	
CN705	Δ 1-251-182-41	SOCKET, PICTURE TUBE					C740	1-102-114-00	CERAMIC	470pF	10%	50V	
CN706	* 1-564-512-11	PLUG, CONNECTOR 9P					<CONNECTOR>						
<DIODE>							CN731	1-695-915-11	TAB (CONTACT)				
D701	8-719-991-33	DIODE 1SS133T-77					CN732	* 1-564-508-11	PLUG, CONNECTOR 5P				
D704	8-719-991-33	DIODE 1SS133T-77					CN733	* 1-564-511-11	PLUG, CONNECTOR 8P				
D705	8-719-991-33	DIODE 1SS133T-77					CN734	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
D706	8-719-991-33	DIODE 1SS133T-77					CN735	Δ 1-251-182-41	SOCKET, PICTURE TUBE				
D708	8-719-991-33	DIODE 1SS133T-77					CN736	* 1-564-512-11	PLUG, CONNECTOR 9P				
D709	8-719-109-84	ZENER DIODE RD5.1ESB1					CN737	* 1-564-512-11	PLUG, CONNECTOR 9P				
<COIL>							<DIODE>						
L701	1-410-682-31	INDUCTOR	470μH				D731	8-719-991-33	DIODE 1SS133T-77				
L702	1-408-619-31	INDUCTOR	220μH				D732	8-719-991-33	DIODE 1SS133T-77				
<TRANSISTOR>							D733	8-719-991-33	DIODE 1SS133T-77				
Q701	8-729-200-17	TRANSISTOR 2SA1091-O					D735	8-719-991-33	DIODE 1SS133T-77				
Q703	8-729-045-56	TRANSISTOR 2SC2611-15					D736	8-719-991-33	DIODE 1SS133T-77				
Q704	8-729-119-78	TRANSISTOR 2SC2785-HFE					<COIL>						
Q705	8-729-119-76	TRANSISTOR 2SA1175-HFE					L731	1-408-623-31	INDUCTOR	470μH			
Q706	8-729-119-76	TRANSISTOR 2SA1175-HFE					L732	1-408-619-31	INDUCTOR	220μH			
<RESISTOR>							<TRANSISTOR>						
R701	1-219-743-11	CARBON	100	5%	1/2W		Q731	8-729-200-17	TRANSISTOR 2SA1091-O				
R704	1-260-132-11	CARBON	560K	5%	1/2W		Q732	8-729-045-56	TRANSISTOR 2SC2611-15				
R706	1-249-425-11	CARBON	4.7K	5%	1/4W		Q733	8-729-119-78	TRANSISTOR 2SC2785-HFE				
R707	1-247-807-31	CARBON	100	5%	1/4W		<RESISTOR>						
R708	1-249-410-11	CARBON	270	5%	1/4W		R731	1-219-743-11	CARBON	100	5%	1/2W	
R709	1-260-099-11	CARBON	1K	5%	1/2W		R732	1-260-132-11	CARBON	560K	5%	1/2W	
R710	1-249-393-11	CARBON	10	5%	1/4W		R733	1-215-923-00	METAL OXIDE	10K	5%	3W	
R711	1-215-923-00	METAL OXIDE	10K	5%	3W	F	R735	1-247-807-31	CARBON	100	5%	1/4W	
R714	1-202-818-00	SOLID	1K	20%	1/2W		R736	1-249-425-11	CARBON	4.7K	5%	1/4W	
R715	1-260-133-11	CARBON	680K	5%	1/2W		R737	1-260-099-11	CARBON	1K	5%	1/2W	
R716	1-247-815-91	CARBON	220	5%	1/4W		R738	1-249-407-11	CARBON	150	5%	1/4W	
R717	1-249-435-11	CARBON	33K	5%	1/4W		R739	1-260-133-11	CARBON	680K	5%	1/2W	
R718	1-249-437-11	CARBON	47K	5%	1/4W		R740	1-202-818-00	SOLID	1K	20%	1/2W	
R719	1-219-743-11	CARBON	100	5%	1/2W		R741	1-249-393-11	CARBON	10	5%	1/4W	
R720	1-249-425-11	CARBON	4.7K	5%	1/4W		R742	1-247-815-91	CARBON	220	5%	1/4W	
R721	1-202-814-11	SOLID	33K	20%	1/2W		R744	1-247-891-00	CARBON	330K	5%	1/4W	
R722	1-247-863-91	CARBON	22K	5%	1/4W		R745	1-247-843-11	CARBON	3.3K	5%	1/4W	
R723	1-249-437-11	CARBON	47K	5%	1/4W		R746	1-202-814-11	SOLID	33K	20%	1/2W	
<SPARK GAP>							<SPARK GAP>						
SG701	1-519-422-11	GAP, SPARK					SG731	1-519-422-11	GAP, SPARK				
SG702	1-519-422-11	GAP, SPARK					SG732	1-519-422-11	GAP, SPARK				
SG703	1-519-422-11	GAP, SPARK					SG733	1-519-422-11	GAP, SPARK				
*****							*****						
* A-1638-134-ACG BOARD, COMPLETE							* A-1638-135-A CB BOARD, COMPLETE						
*****							*****						
<CAPACITOR>							<CAPACITOR>						
C733	1-161-754-00	CERAMIC	0.001μF	10%	2KV		C762	1-126-964-11	ELECT	10μF	20%	50V	
C734	1-102-114-00	CERAMIC	470pF	10%	50V								

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

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CB E

REF. NO.	PART NO.	DESCRIPTION	REMARK
C763	1-161-754-00	CERAMIC 0.001 μ F 10% 2KV	
C764	1-102-112-00	CERAMIC 330pF 10% 50V	
C765	1-161-830-00	CERAMIC 0.0047 μ F 10% 500V	
C766	1-162-115-00	CERAMIC 330pF 10% 2KV	
C767	1-107-662-11	ELECT 22 μ F 20% 250V	
C768	1-101-880-00	CERAMIC 47pF 5% 50V	
C769	1-104-664-11	ELECT 47 μ F 20% 25V	
C770	1-102-114-00	CERAMIC 470pF 10% 50V	
<CONNECTOR>			
CN761	1-695-915-11	TAB (CONTACT)	
CN762	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN763	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN764	Δ 1-251-182-41	SOCKET, PICTURE TUBE	
CN765	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN766	* 1-564-513-11	PLUG, CONNECTOR 10P	
<DIODE>			
D761	8-719-991-33	DIODE 1SS133T-77	
D762	8-719-991-33	DIODE 1SS133T-77	
D763	8-719-991-33	DIODE 1SS133T-77	
D765	8-719-991-33	DIODE 1SS133T-77	
D766	8-719-991-33	DIODE 1SS133T-77	
<COIL>			
L761	1-408-623-31	INDUCTOR 470 μ H	
L762	1-408-619-31	INDUCTOR 220 μ H	
<TRANSISTOR>			
Q761	8-729-200-17	TRANSISTOR 2SA1091-O	
Q762	8-729-045-56	TRANSISTOR 2SC2611-15	
Q763	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q764	8-729-119-76	TRANSISTOR 2SA1175-HFE	
<RESISTOR>			
R761	1-219-743-11	CARBON 100 5% 1/2W	
R762	1-260-132-11	CARBON 560K 5% 1/2W	
R763	1-215-923-00	METAL OXIDE 10K 5% 3W	
R765	1-247-807-31	CARBON 100 5% 1/4W	
R766	1-260-099-11	CARBON 1K 5% 1/2W	
R767	1-249-425-11	CARBON 4.7K 5% 1/4W	
R768	1-260-133-11	CARBON 680K 5% 1/2W	
R769	1-202-818-00	SOLID 1K 20% 1/2W	
R770	1-247-815-91	CARBON 220 5% 1/4W	
R771	1-219-743-11	CARBON 100 5% 1/2W	
R772	1-249-393-11	CARBON 10 5% 1/4W	
R773	1-249-407-11	CARBON 150 5% 1/4W	
R775	1-249-427-11	CARBON 6.8K 5% 1/4W	
R776	1-249-437-11	CARBON 47K 5% 1/4W	
R777	1-249-427-11	CARBON 6.8K 5% 1/4W	
R778	1-202-814-11	SOLID 33K 20% 1/2W	
R779	1-247-815-91	CARBON 220 5% 1/4W	
<SPARK GAP>			
SG761	1-519-422-11	GAP, SPARK	
SG762	1-519-422-11	GAP, SPARK	
SG763	1-519-422-11	GAP, SPARK	

REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1640-374-A E BOARD, COMPLETE *****			
4-382-854-11	SCREW (M3X10), P, SW (+)		
7-682-952-09	SCREW +PSW 3X16		
<CAPACITOR>			
C502	1-126-959-11	ELECT 0.47 μ F 20% 50V	
C506	1-126-933-11	ELECT 100 μ F 20% 16V	
C507	1-126-965-11	ELECT 22 μ F 20% 50V	
C508	1-102-228-00	CERAMIC 470pF 10% 500V	
C509	1-106-383-00	MYLAR 0.047 μ F 10% 200V	
C511	1-130-475-00	MYLAR 0.0022 μ F 5% 50V	
C512	1-136-479-11	FILM 0.001 μ F 5% 50V	
C513	1-126-965-11	ELECT 22 μ F 20% 50V	
C514	Δ 1-162-116-91	CERAMIC 680pF 10% 2KV	
C515	Δ 1-136-759-91	FILM 0.039 μ F 5% 630V	
C516	Δ 1-117-648-11	FILM 15000pF 3% 1.2KV	
C518	1-130-495-00	MYLAR 0.1 μ F 5% 50V	
C519	1-106-359-00	MYLAR 0.0047 μ F 10% 100V	
C520	1-162-116-00	CERAMIC 680pF 10% 2KV	
C521	1-162-116-00	CERAMIC 680pF 10% 2KV	
C523	1-117-673-11	FILM 1.5 μ F 5% 250V	
C524	1-106-359-00	MYLAR 0.0047 μ F 10% 100V	
C526	1-102-228-00	CERAMIC 470pF 10% 500V	
C527	1-126-970-11	ELECT 330 μ F 20% 50V	
C528	1-107-957-11	ELECT 1 μ F 20% 250V	
C529	1-109-844-11	FILM 0.68 μ F 5% 250V	
C530	1-107-648-91	ELECT 100 μ F 20% 160V	
C531	1-126-971-11	ELECT 470 μ F 20% 50V	
C532	1-126-971-11	ELECT 470 μ F 20% 50V	
C533	1-107-655-11	ELECT 47 μ F 20% 250V	
C535	1-106-387-00	MYLAR 0.068 μ F 10% 200V	
C536	1-130-489-00	MYLAR 0.033 μ F 5% 50V	
C537	1-126-968-11	ELECT 100 μ F 20% 50V	
C538	1-126-968-11	ELECT 100 μ F 20% 50V	
C539	1-162-114-00	CERAMIC 0.0047 μ F 20% 2KV	
C540	1-137-372-11	MYLAR 0.022 μ F 5% 50V	
C541	1-137-372-11	MYLAR 0.022 μ F 5% 50V	
C542	1-126-934-11	ELECT 220 μ F 20% 16V	
C543	1-126-964-11	ELECT 10 μ F 20% 50V	
C548	1-102-244-00	CERAMIC 220pF 10% 500V	
C550	1-126-935-11	ELECT 470 μ F 20% 16V	
C551	1-126-935-11	ELECT 470 μ F 20% 16V	
C554	1-137-501-11	FILM 0.0068 μ F 5% 630V	
C555	1-126-960-11	ELECT 1 μ F 20% 50V	
C556	1-130-495-00	MYLAR 0.1 μ F 5% 50V	
C557	1-126-964-11	ELECT 10 μ F 20% 50V	
C558	1-126-935-11	ELECT 470 μ F 20% 16V	
C701	1-126-933-11	ELECT 100 μ F 20% 16V	
C801	1-104-665-11	ELECT 100 μ F 20% 25V	
C802	1-104-665-11	ELECT 100 μ F 20% 25V	
C803	1-126-934-11	ELECT 220 μ F 20% 16V	
C804	1-126-934-11	ELECT 220 μ F 20% 16V	
C805	1-126-934-11	ELECT 220 μ F 20% 16V	
C806	1-126-934-11	ELECT 220 μ F 20% 16V	
C807	1-137-374-11	MYLAR 0.047 μ F 5% 50V	
C808	1-137-374-11	MYLAR 0.047 μ F 5% 50V	
C809	1-137-374-11	MYLAR 0.047 μ F 5% 50V	
C810	1-137-374-11	MYLAR 0.047 μ F 5% 50V	
C811	1-102-074-00	CERAMIC 0.001 μ F 10% 50V	
C812	1-136-169-00	MYLAR 0.22 μ F 5% 50V	
C813	1-137-374-11	MYLAR 0.047 μ F 5% 50V	
C815	1-104-665-11	ELECT 100 μ F 20% 25V	
C817	1-104-664-11	ELECT 47 μ F 20% 25V	
C818	1-126-933-11	ELECT 100 μ F 20% 16V	
C819	1-104-664-11	ELECT 47 μ F 20% 25V	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C821	1-130-495-00	MYLAR	0.1μF 5% 50V	<CONNECTOR>			
C822	1-107-648-91	ELECT	100μF 20% 160V	CN501	* 1-564-513-11	PLUG, CONNECTOR 10P	
C823	1-104-664-11	ELECT	47μF 20% 25V	CN502	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C825	1-104-665-11	ELECT	100μF 20% 25V	CN503	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C826	1-136-165-00	MYLAR	0.1μF 5% 50V	CN504	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C827	1-126-964-11	ELECT	10μF 20% 50V	CN505	* 1-506-371-00	PIN, CONNECTOR 2P	
C828	1-102-824-00	CERAMIC	470pF 5% 50V	CN506	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C829	1-126-959-11	ELECT	0.47μF 20% 50V	CN507	* 1-564-507-11	PLUG, CONNECTOR 4P	
C830	1-102-824-00	CERAMIC	470pF 5% 50V	CN508	1-695-915-11	TAB (CONTACT)	
C831	1-126-960-11	ELECT	1μF 20% 50V	CN651	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C832	1-126-960-11	ELECT	1μF 20% 50V	CN652	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C833	1-126-960-11	ELECT	1μF 20% 50V	CN801	* 1-564-507-11	PLUG, CONNECTOR 4P	
C834	1-126-968-11	ELECT	100μF 20% 50V	CN802	* 1-564-507-11	PLUG, CONNECTOR 4P	
C835	1-126-967-11	ELECT	47μF 20% 50V	CN803	* 1-564-507-11	PLUG, CONNECTOR 4P	
C836	1-136-169-00	MYLAR	0.22μF 5% 50V	CN804	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C837	1-126-963-11	ELECT	4.7μF 20% 50V	CN805	* 1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
C838	1-104-665-11	ELECT	100μF 20% 25V	CN806	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
C839	1-137-374-11	MYLAR	0.047μF 5% 50V	CN807	* 1-564-509-11	PLUG, CONNECTOR 6P	
C840	1-104-665-11	ELECT	100μF 20% 25V	CN808	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
C841	1-137-374-11	MYLAR	0.047μF 5% 50V	CN810	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
C842	1-137-374-11	MYLAR	0.047μF 5% 50V	<DIODE>			
C843	1-104-664-11	ELECT	47μF 20% 25V	D501	8-719-991-33	DIODE 1SS133T-77	
C844	1-126-933-11	ELECT	100μF 20% 16V	D502	8-719-991-33	DIODE 1SS133T-77	
C845	1-126-933-11	ELECT	100μF 20% 16V	D503	8-719-991-33	DIODE 1SS133T-77	
C846	1-126-933-11	ELECT	100μF 20% 16V	D504	8-719-921-63	DIODE MTZJ-7.5B	
C847	1-126-933-11	ELECT	100μF 20% 16V	D507	8-719-302-43	DIODE EL1Z	
C848	1-126-933-11	ELECT	100μF 20% 16V	D508	8-719-900-26	DIODE ERD29-08J	
C849	1-102-973-00	CERAMIC	100pF 5% 50V	D509	8-719-945-80	DIODE ERC06-15S	
C850	1-102-973-00	CERAMIC	100pF 5% 50V	D510	8-719-991-33	DIODE 1SS133T-77	
C851	1-137-374-11	MYLAR	0.047μF 5% 50V	D511	8-719-302-43	DIODE EL1Z	
C852	1-137-374-11	MYLAR	0.047μF 5% 50V	D512	8-719-991-33	DIODE 1SS133T-77	
C853	1-137-374-11	MYLAR	0.047μF 5% 50V	D513	8-719-302-43	DIODE EL1Z	
C854	1-126-933-11	ELECT	100μF 20% 16V	D514	8-719-908-03	DIODE GP08D	
C855	1-102-973-00	CERAMIC	100pF 5% 50V	D515	8-719-908-03	DIODE GP08D	
C856	1-102-973-00	CERAMIC	100pF 5% 50V	D517	8-719-018-82	DIODE RGP02-20EL-6394	
C857	1-126-933-11	ELECT	100μF 20% 16V	D519	8-719-991-33	DIODE 1SS133T-77	
C858	1-104-665-11	ELECT	100μF 20% 25V	D524	8-719-991-33	DIODE 1SS133T-77	
C859	1-104-665-11	ELECT	100μF 20% 25V	D527	8-719-109-85	ZENER DIODE RD5.1ESB2	
C860	1-126-933-11	ELECT	100μF 20% 16V	D560	8-719-991-33	DIODE 1SS133T-77	
C861	1-137-374-11	MYLAR	0.047μF 5% 50V	D701	8-719-109-63	ZENER DIODE RD3.0ESB2	
C862	1-137-374-11	MYLAR	0.047μF 5% 50V	D702	8-719-991-33	DIODE 1SS133T-77	
C863	1-137-374-11	MYLAR	0.047μF 5% 50V	D820	8-719-109-68	ZENER DIODE RD3.6ESB1	
C864	1-126-933-11	ELECT	100μF 20% 16V	D828	8-719-109-89	ZENER DIODE RD5.6ESB2	
C865	1-137-366-11	MYLAR	0.0022μF 5% 50V	D829	8-719-109-84	ZENER DIODE RD5.1ESB1	
C866	1-136-177-00	MYLAR	1μF 5% 50V	D835	8-719-109-89	ZENER DIODE RD5.6ESB2	
C867	1-104-664-11	ELECT	47μF 20% 25V	D840	8-719-991-33	DIODE 1SS133T-77	
C868	1-164-096-11	CERAMIC	0.01μF 50V	D842	8-719-991-33	DIODE 1SS133T-77	
C869	1-130-491-00	MYLAR	0.047μF 5% 50V	D845	8-719-991-33	DIODE 1SS133T-77	
C870	1-164-096-11	CERAMIC	0.01μF 50V	D846	8-719-991-33	DIODE 1SS133T-77	
C872	1-126-960-11	ELECT	1μF 20% 50V	D850	8-719-109-89	ZENER DIODE RD5.6ESB2	
C874	1-104-664-11	ELECT	47μF 20% 25V	D901	8-719-110-08	ZENER DIODE RD8.2ESB2	
C875	1-164-096-11	CERAMIC	0.01μF 50V	<FERRITE BEAD>			
C876	1-102-973-00	CERAMIC	100pF 5% 50V	FB501	1-410-397-21	FERRITE 1.1μH	
C877	1-102-973-00	CERAMIC	100pF 5% 50V	<IC>			
C878	1-104-664-11	ELECT	47μF 20% 25V	IC501	8-759-133-90	IC μPC339C	
C879	1-104-664-11	ELECT	47μF 20% 25V	IC801	8-759-327-51	IC PA0053B	
C880	1-102-973-00	CERAMIC	100pF 5% 50V	IC802	8-759-327-51	IC PA0053B	
C881	1-102-973-00	CERAMIC	100pF 5% 50V	IC803	8-759-183-37	IC CA0007AD	
C882	1-102-973-00	CERAMIC	100pF 5% 50V	IC804	8-759-464-79	IC PM0011AS	
C883	1-102-973-00	CERAMIC	100pF 5% 50V	IC805	8-759-711-28	IC NJM2058D	
C884	1-104-665-11	ELECT	100μF 20% 25V	IC806	8-759-464-79	IC PM0011AS	
C885	1-104-664-11	ELECT	47μF 20% 25V	IC807	8-759-700-69	IC NJM79L12A	
C886	1-102-973-00	CERAMIC	100pF 5% 50V				
C887	1-102-973-00	CERAMIC	100pF 5% 50V				
C888	1-102-973-00	CERAMIC	100pF 5% 50V				
C889	1-104-665-11	ELECT	100μF 20% 25V				
C897	1-104-665-11	ELECT	100μF 20% 25V				
C898	1-164-096-11	CERAMIC	0.01μF 50V				

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

The components identified by ∇ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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E

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC808	8-759-464-79	IC PM0011AS		R512	1-215-918-00	METAL OXIDE 1.5K	5% 3W F
IC809	8-749-014-37	IC STK392-150		R513	1-247-843-11	CARBON 3.3K	5% 1/4W
IC810	8-749-014-37	IC STK392-150		R514	1-215-443-00	METAL 8.2K	1% 1/4W
IC811	8-759-981-96	IC RC4560D		R516	1-215-467-00	METAL 82K	1% 1/4W
IC812	8-759-701-56	IC NJM78M05FA		R517	1-215-449-00	METAL 15K	1% 1/4W
IC813	8-759-701-65	IC NJM79M05FA		R518	1-249-436-11	CARBON 39K	5% 1/4W
IC814	8-759-595-88	IC AN77L12-TA		R519	1-249-429-11	CARBON 10K	5% 1/4W
<COIL>				R522	1-249-428-11	CARBON 8.2K	5% 1/4W
L502	1-410-478-11	INDUCTOR 47 μ H		R523	1-249-437-11	CARBON 47K	5% 1/4W
L503	1-459-111-00	INDUCTOR 10mH		R524	1-249-425-11	CARBON 4.7K	5% 1/4W
L505	Δ 1-416-637-11	COIL, HORIZONTAL LINEARITY		R525	1-249-405-11	CARBON 100	5% 1/4W F
L506	1-412-552-11	INDUCTOR 2.2mH		R527	1-249-425-11	CARBON 4.7K	5% 1/4W
L801	1-406-979-11	INDUCTOR 220 μ H		R528	1-215-910-00	METAL OXIDE 68	5% 3W F
L802	1-406-979-11	INDUCTOR 220 μ H		R529	1-215-453-00	METAL 22K	1% 1/4W
L803	1-406-665-11	INDUCTOR 100 μ H		R530	1-249-429-11	CARBON 10K	5% 1/4W
<NEON LAMP>				R531	1-260-326-11	CARBON 680	5% 1/2W
NL501	1-519-108-99	LAMP, NEON		R532	1-260-312-11	CARBON 47	5% 1/2W
<IC LINK>				R533	1-214-912-00	METAL 91K	1% 1/2W
PS601	Δ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)		R534	1-215-479-00	METAL 270K	1% 1/4W
PS602	Δ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)		R535	1-247-887-00	CARBON 220K	5% 1/4W
PS603	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R536	1-249-377-11	CARBON 0.47	5% 1/4W F
PS604	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R537	1-260-336-11	CARBON 4.7K	5% 1/2W
PS605	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R538	1-249-425-11	CARBON 4.7K	5% 1/4W
PS606	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R539	1-249-377-11	CARBON 0.47	5% 1/4W F
PS607	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R540	1-249-377-11	CARBON 0.47	5% 1/4W F
PS608	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R541	1-247-807-31	CARBON 100	5% 1/4W
<TRANSISTOR>				R542	1-216-426-11	METAL OXIDE 82	5% 1W F
Q501	8-729-119-80	TRANSISTOR 2SC2688-LK		R543	1-216-349-00	METAL OXIDE 1	5% 1W F
Q502	8-729-044-29	TRANSISTOR 2SD2539(LBSONY-1)		R544	1-216-426-11	METAL OXIDE 82	5% 1W F
Q503	8-729-119-76	TRANSISTOR 2SA1175-HFE		R545	1-249-377-11	CARBON 0.47	5% 1/4W F
Q504	8-729-823-81	TRANSISTOR 2SC4632LS-CB7		R546	1-249-377-11	CARBON 0.47	5% 1/4W F
Q505	8-729-038-83	TRANSISTOR 2SK2251-01-F19		R548	1-249-413-11	CARBON 470	5% 1/4W
Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE		R549	1-249-434-11	CARBON 27K	5% 1/4W
Q507	8-729-032-61	TRANSISTOR 2SC5022-02		R550	1-247-807-31	CARBON 100	5% 1/4W
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE		R551	1-249-437-11	CARBON 47K	5% 1/4W
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE		R552	1-247-807-31	CARBON 100	5% 1/4W
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		R553	1-247-881-00	CARBON 120K	5% 1/4W
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE		R554	1-249-405-11	CARBON 100	5% 1/4W F
Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE		R555	1-247-807-31	CARBON 100	5% 1/4W
Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE		R556	1-260-099-11	CARBON 1K	5% 1/2W
Q804	8-729-119-76	TRANSISTOR 2SA1175-HFE		R557	1-216-490-11	METAL OXIDE 39K	5% 3W F
Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE		R558	1-216-490-11	METAL OXIDE 39K	5% 3W F
Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE		R559	1-216-490-11	METAL OXIDE 39K	5% 3W F
Q808	8-729-030-02	TRANSISTOR DTC144ESA		R561	1-249-418-11	CARBON 1.2K	5% 1/4W
Q809	8-729-119-78	TRANSISTOR 2SC2785-HFE		R562	1-202-838-00	SOLID 100K	10% 1/2W
Q810	8-729-119-78	TRANSISTOR 2SC2785-HFE		R563	1-215-453-00	METAL 22K	1% 1/4W
<RESISTOR>				R564	1-249-417-11	CARBON 1K	5% 1/4W
∇ R1	Δ	METAL 1% 1/4W		R566	1-249-425-11	CARBON 4.7K	5% 1/4W
R501	1-249-421-11	CARBON 2.2K 5% 1/4W		R567	1-216-388-11	METAL OXIDE 0.82	5% 3W F
R502	1-216-465-21	METAL OXIDE 27K 5% 2W	F	R568	1-247-903-00	CARBON 1M	5% 1/4W
R503	1-247-843-11	CARBON 3.3K 5% 1/4W		R569	1-216-388-11	METAL OXIDE 0.82	5% 3W F
R504	1-249-419-11	CARBON 1.5K 5% 1/4W		R570	1-215-910-00	METAL OXIDE 68	5% 3W F
R505	1-247-887-00	CARBON 220K 5% 1/4W		R571	1-249-422-11	CARBON 2.7K	5% 1/4W
R507	1-249-422-11	CARBON 2.7K 5% 1/4W		R572	1-247-895-91	CARBON 470K	5% 1/4W
R508	1-260-338-51	CARBON 6.8K 5% 1/2W		R573	1-249-438-11	CARBON 56K	5% 1/4W
R509	1-249-437-11	CARBON 47K 5% 1/4W		R574	1-249-435-11	CARBON 33K	5% 1/4W
R510	1-215-918-00	METAL OXIDE 1.5K 5% 3W	F	R576	1-247-807-31	CARBON 100	5% 1/4W
R511	1-215-918-00	METAL OXIDE 1.5K 5% 3W	F	R577	1-249-422-11	CARBON 2.7K	5% 1/4W
				R579	1-247-889-00	CARBON 270K	5% 1/4W
				R580	1-249-437-11	CARBON 47K	5% 1/4W
				R581	1-215-460-00	METAL 43K	1% 1/4W
				R582	1-247-881-00	CARBON 120K	5% 1/4W
				R583	1-249-428-11	CARBON 8.2K	5% 1/4W
				R584	1-249-429-11	CARBON 10K	5% 1/4W
				R585	1-216-490-11	METAL OXIDE 39K	5% 3W F
				R586	1-215-892-11	METAL OXIDE 1K	5% 2W F
				R587	1-249-441-11	CARBON 100K	5% 1/4W
				R588	1-247-863-91	CARBON 22K	5% 1/4W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R589	1-247-887-00	CARBON	220K 5%	1/4W	R875	1-249-441-11	CARBON 100K 5%
R591	1-249-425-11	CARBON	4.7K 5%	1/4W	R879	1-215-445-00	METAL 10K 1%
R592	1-249-437-11	CARBON	47K 5%	1/4W	R881	1-249-408-11	CARBON 180 5%
R593	1-247-807-31	CARBON	100 5%	1/4W	R882	1-249-429-11	CARBON 10K 5%
R702	1-249-421-11	CARBON	2.2K 5%	1/4W	R883	1-249-429-11	CARBON 10K 5%
R703	1-249-421-11	CARBON	2.2K 5%	1/4W	R884	1-215-445-00	METAL 10K 1%
R801	1-247-807-31	CARBON	100 5%	1/4W	R885	1-249-441-11	CARBON 100K 5%
R802	1-247-807-31	CARBON	100 5%	1/4W	R886	1-249-428-11	CARBON 8.2K 5%
R803	1-249-430-11	CARBON	12K 5%	1/4W	R887	1-247-807-31	CARBON 100 5%
R805	1-247-807-31	CARBON	100 5%	1/4W	R888	1-247-807-31	CARBON 100 5%
R806	1-249-429-11	CARBON	10K 5%	1/4W	R889	1-249-435-11	CARBON 33K 5%
R807	1-247-807-31	CARBON	100 5%	1/4W	R890	1-249-441-11	CARBON 100K 5%
R809	1-249-425-11	CARBON	4.7K 5%	1/4W	R891	1-247-843-11	CARBON 3.3K 5%
R810	1-247-807-31	CARBON	100 5%	1/4W	R895	1-249-421-11	CARBON 2.2K 5%
R811	1-247-807-31	CARBON	100 5%	1/4W	R896	1-249-441-11	CARBON 100K 5%
R814	1-247-807-31	CARBON	100 5%	1/4W	R897	1-247-807-31	CARBON 100 5%
R815	1-247-807-31	CARBON	100 5%	1/4W	R898	1-247-815-91	CARBON 220 5%
R816	1-247-807-31	CARBON	100 5%	1/4W	R900	1-216-474-11	METAL OXIDE 82 5%
R817	1-247-807-31	CARBON	100 5%	1/4W	R901	1-215-449-00	METAL 15K 1%
R819	1-247-807-31	CARBON	100 5%	1/4W	R902	1-215-449-00	METAL 15K 1%
R821	1-249-431-11	CARBON	15K 5%	1/4W	R903	1-215-421-00	METAL 1K 1%
R822	1-249-417-11	CARBON	1K 5%	1/4W	R904	1-214-800-11	METAL 2.2 1%
R823	1-249-417-11	CARBON	1K 5%	1/4W	R905	1-214-800-11	METAL 2.2 1%
R824	1-215-462-00	METAL	51K 1%	1/4W	R906	1-214-800-11	METAL 2.2 1%
R825	1-249-441-11	CARBON	100K 5%	1/4W	R908	1-215-445-00	METAL 10K 1%
R826	1-215-462-00	METAL	51K 1%	1/4W	R909	1-215-421-00	METAL 1K 1%
R827	1-216-474-11	METAL OXIDE	82 5%	3W F	R910	1-215-421-00	METAL 1K 1%
R828	1-249-426-11	CARBON	5.6K 5%	1/4W	R911	1-215-461-00	METAL 47K 1%
R829	1-249-426-11	CARBON	5.6K 5%	1/4W	R912	1-215-445-00	METAL 10K 1%
R830	1-249-414-11	CARBON	560 5%	1/4W	R913	1-215-455-00	METAL 27K 1%
R831	1-249-414-11	CARBON	560 5%	1/4W	R914	1-215-455-00	METAL 27K 1%
R832	1-249-441-11	CARBON	100K 5%	1/4W	R915	1-215-455-00	METAL 27K 1%
R833	1-216-474-11	METAL OXIDE	82 5%	3W F	R916	1-215-455-00	METAL 27K 1%
R834	1-249-441-11	CARBON	100K 5%	1/4W	R917	1-215-455-00	METAL 27K 1%
R835	1-249-441-11	CARBON	100K 5%	1/4W	R918	1-215-455-00	METAL 27K 1%
R836	1-247-807-31	CARBON	100 5%	1/4W	R919	1-249-436-11	CARBON 39K 5%
R837	1-249-441-11	CARBON	100K 5%	1/4W	R920	1-214-800-11	METAL 2.2 1%
R838	1-249-421-11	CARBON	2.2K 5%	1/4W	R921	1-249-431-11	CARBON 15K 5%
R839	1-247-807-31	CARBON	100 5%	1/4W	R922	1-215-445-00	METAL 10K 1%
R841	1-247-815-91	CARBON	220 5%	1/4W	R923	1-249-425-11	CARBON 4.7K 5%
R842	1-247-807-31	CARBON	100 5%	1/4W	R924	1-215-445-00	METAL 10K 1%
R843	1-247-807-31	CARBON	100 5%	1/4W	R925	1-249-425-11	CARBON 4.7K 5%
R844	1-247-807-31	CARBON	100 5%	1/4W	R926	1-249-408-11	CARBON 180 5%
R845	1-249-441-11	CARBON	100K 5%	1/4W	R927	1-249-429-11	CARBON 10K 5%
R846	1-247-807-31	CARBON	100 5%	1/4W	R928	1-249-429-11	CARBON 10K 5%
R847	1-215-481-00	METAL	330K 1%	1/4W	R929	1-214-800-11	METAL 2.2 1%
R850	1-215-481-00	METAL	330K 1%	1/4W	R930	1-214-800-11	METAL 2.2 1%
R851	1-247-807-31	CARBON	100 5%	1/4W	R931	1-215-445-00	METAL 10K 1%
R852	1-247-807-31	CARBON	100 5%	1/4W	R933	1-215-445-00	METAL 10K 1%
R853	1-247-887-00	CARBON	220K 5%	1/4W	R934	1-249-422-11	CARBON 2.7K 5%
R854	1-249-429-11	CARBON	10K 5%	1/4W	R935	1-249-429-11	CARBON 10K 5%
R856	1-247-807-31	CARBON	100 5%	1/4W	R936	1-249-431-11	CARBON 15K 5%
R857	1-247-807-31	CARBON	100 5%	1/4W	R937	1-249-436-11	CARBON 39K 5%
R858	1-215-455-00	METAL	27K 1%	1/4W	R938	1-215-421-00	METAL 1K 1%
R859	1-215-455-00	METAL	27K 1%	1/4W	R939	1-259-878-11	CARBON 1.5M 5%
R860	1-215-455-00	METAL	27K 1%	1/4W	R940	1-249-441-11	CARBON 100K 5%
R861	1-215-455-00	METAL	27K 1%	1/4W	R941	1-249-441-11	CARBON 100K 5%
R862	1-215-455-00	METAL	27K 1%	1/4W	R942	1-249-421-11	CARBON 2.2K 5%
R863	1-215-455-00	METAL	27K 1%	1/4W	R943	1-249-441-11	CARBON 100K 5%
R865	1-249-424-11	CARBON	3.9K 5%	1/4W	R944	1-215-421-00	METAL 1K 1%
R867	1-215-451-00	METAL	18K 1%	1/4W	R945	1-249-437-11	CARBON 47K 5%
R868	1-215-445-00	METAL	10K 1%	1/4W	R946	1-215-421-00	METAL 1K 1%
R869	1-249-425-11	CARBON	4.7K 5%	1/4W	R947	1-249-441-11	CARBON 100K 5%
R871	1-249-417-11	CARBON	1K 5%	1/4W	R948	1-247-815-91	CARBON 220 5%
R872	1-249-425-11	CARBON	4.7K 5%	1/4W	R949	1-247-807-31	CARBON 100 5%
R873	1-247-807-31	CARBON	100 5%	1/4W	R950	1-247-807-31	CARBON 100 5%
R874	1-249-435-11	CARBON	33K 5%	1/4W	R951	1-247-807-31	CARBON 100 5%
					R952	1-247-807-31	CARBON 100 5%

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R953	1-249-435-11	CARBON	33K 5% 1/4W	C1507	1-163-243-11	CERAMIC CHIP 47pF 5% 50V	
R954	1-215-433-00	METAL	3.3K 1% 1/4W	C1508	1-137-401-11	MYLAR 0.22μF 10% 100V	
R955	1-215-433-00	METAL	3.3K 1% 1/4W	C1509	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
R956	1-249-429-11	CARBON	10K 5% 1/4W	C1510	1-126-972-11	ELECT 1000μF 20% 50V	
R957	1-214-800-11	METAL	2.2 1% 1/2W	C1511	1-126-972-11	ELECT 1000μF 20% 50V	
R958	1-214-800-11	METAL	2.2 1% 1/2W	C1512	1-126-960-11	ELECT 1μF 20% 50V	
R959	1-215-433-00	METAL	3.3K 1% 1/4W	C1513	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
R961	1-249-425-11	CARBON	4.7K 5% 1/4W	C1514	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
R962	1-214-800-11	METAL	2.2 1% 1/2W	C1516	1-164-004-11	CERAMIC CHIP 0.1μF 10% 25V	
R963	1-214-800-11	METAL	2.2 1% 1/2W	C1517	1-126-964-11	ELECT 10μF 20% 50V	
R964	1-215-433-00	METAL	3.3K 1% 1/4W	C1518	1-126-933-11	ELECT 100μF 20% 16V	
R965	1-215-433-00	METAL	3.3K 1% 1/4W	C1519	1-126-933-11	ELECT 100μF 20% 16V	
R966	1-247-815-91	CARBON	220 5% 1/4W	C1520	1-126-964-11	ELECT 10μF 20% 50V	
R967	1-215-455-00	METAL	27K 1% 1/4W	C1521	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
R968	1-215-455-00	METAL	27K 1% 1/4W	C1523	1-163-243-11	CERAMIC CHIP 47pF 5% 50V	
R969	1-215-455-00	METAL	27K 1% 1/4W	C1524	1-136-177-00	MYLAR 1μF 5% 50V	
R970	1-215-455-00	METAL	27K 1% 1/4W	C1525	1-104-665-11	ELECT 100μF 20% 25V	
R971	1-215-455-00	METAL	27K 1% 1/4W	C1526	1-104-664-11	ELECT 47μF 20% 25V	
R972	1-215-455-00	METAL	27K 1% 1/4W	C1527	1-163-145-00	CERAMIC CHIP 0.0015μF 5% 50V	
R973	1-214-800-11	METAL	2.2 1% 1/2W	C1528	1-163-145-00	CERAMIC CHIP 0.0015μF 5% 50V	
R974	1-215-451-00	METAL	18K 1% 1/4W	C1529	1-164-690-91	CERAMIC CHIP 0.0022μF 5% 50V	
R975	1-214-800-11	METAL	2.2 1% 1/2W	C1530	1-104-664-11	ELECT 47μF 20% 16V	
R976	1-215-433-00	METAL	3.3K 1% 1/4W	C1531	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
R978	1-215-445-00	METAL	10K 1% 1/4W	C1532	1-126-960-11	ELECT 1μF 20% 50V	
R979	1-249-425-11	CARBON	4.7K 5% 1/4W	C1601	1-163-009-11	CERAMIC CHIP 0.001μF 10% 50V	
R980	1-247-815-91	CARBON	220 5% 1/4W	C1602	1-163-009-11	CERAMIC CHIP 0.001μF 10% 50V	
R981	1-247-815-91	CARBON	220 5% 1/4W	C1603	1-130-495-00	MYLAR 0.1μF 5% 50V	
R983	1-247-815-91	CARBON	220 5% 1/4W	C1604	1-130-495-00	MYLAR 0.1μF 5% 50V	
R984	1-215-445-00	METAL	10K 1% 1/4W	C1605	1-107-715-11	ELECT 22μF 20% 50V	
R985	1-249-429-11	CARBON	10K 5% 1/4W	C1606	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
R986	1-215-453-00	METAL	22K 1% 1/4W	C1607	1-137-370-11	MYLAR 0.01μF 5% 50V	
R987	1-249-408-11	CARBON	180 5% 1/4W	C1610	1-126-960-11	ELECT 1μF 20% 50V	
R988	1-249-429-11	CARBON	10K 5% 1/4W	C1611	1-126-960-11	ELECT 1μF 20% 50V	
R989	1-249-425-11	CARBON	4.7K 5% 1/4W	C1612	1-126-960-11	ELECT 1μF 20% 50V	
R990	1-249-431-11	CARBON	15K 5% 1/4W	C1613	1-126-967-11	ELECT 47μF 20% 50V	
R991	1-249-429-11	CARBON	10K 5% 1/4W	C1614	1-126-967-11	ELECT 47μF 20% 50V	
R993	1-249-425-11	CARBON	4.7K 5% 1/4W	C1617	1-130-495-00	MYLAR 0.1μF 5% 50V	
R994	1-216-474-11	METAL OXIDE	82 5% 3W F	C1618	1-130-495-00	MYLAR 0.1μF 5% 50V	
R997	1-215-445-00	METAL	10K 1% 1/4W	C1619	1-164-004-11	CERAMIC CHIP 0.1μF 10% 25V	
R998	1-249-425-11	CARBON	4.7K 5% 1/4W	C1621	1-104-665-11	ELECT 100μF 20% 25V	
R999	1-249-425-11	CARBON	4.7K 5% 1/4W	C1622	1-164-690-91	CERAMIC CHIP 0.0022μF 5% 50V	
R1904	1-249-425-11	CARBON	4.7K 5% 1/4W	C1624	1-130-495-00	MYLAR 0.1μF 5% 50V	
		<SPARK GAP>		C1626	1-130-495-00	MYLAR 0.1μF 5% 50V	
SG501	1-519-422-11	GAP, SPARK		C1627	1-164-690-91	CERAMIC CHIP 0.0022μF 5% 50V	
		<TRANSFORMER>		C1628	1-126-964-11	ELECT 10μF 20% 50V	
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE		C1630	1-128-550-21	ELECT 2200μF 20% 50V	
T502	Δ 1-431-211-11	TRANSFORMER, FERRITE (PMT)		C1631	1-128-550-21	ELECT 2200μF 20% 50V	
T504	Δ 1-453-331-11	FBT ASSY NX-4012/M		C1632	1-104-664-11	ELECT 47μF 20% 25V	
				C1633	1-104-664-11	ELECT 47μF 20% 25V	
				C1634	1-126-961-11	ELECT 2.2μF 20% 50V	
				C1635	1-104-666-11	ELECT 220μF 20% 25V	
				C1650	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
				C1651	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
				C1661	1-136-165-00	MYLAR 0.1μF 5% 50V	
				C1701	1-126-960-11	ELECT 1μF 20% 50V	
				C1702	1-126-960-11	ELECT 1μF 20% 50V	
				C1703	1-126-964-11	ELECT 10μF 20% 50V	
				C1704	1-126-964-11	ELECT 10μF 20% 50V	
				C1705	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
				C1706	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
				C1707	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
				C1708	1-126-935-11	ELECT 470μF 20% 16V	
				C1709	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
				C1710	1-163-243-11	CERAMIC CHIP 47pF 5% 50V	
				C1711	1-163-243-11	CERAMIC CHIP 47pF 5% 50V	
				C1715	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
C1501	1-163-005-11	CERAMIC CHIP 470pF 10% 50V		C1716	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
C1503	1-137-399-11	MYLAR 0.1μF 5% 100V					
C1504	1-164-690-91	CERAMIC CHIP 0.0022μF 5% 50V					
C1506	1-126-969-11	ELECT 220μF 20% 50V					

* A-1640-375-AD BOARD, COMPLETE

4-201-023-11 SPACER, INSULATING
4-202-373-01 SPRING, IC
4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1717	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	D1606	8-719-991-33	DIODE 1SS133T-77	
C1718	1-126-968-11	ELECT 100μF	20% 50V	D1607	8-719-914-43	DIODE DAN202K	
C1719	1-126-968-11	ELECT 100μF	20% 50V	D1611	8-719-921-86	DIODE MTZJ-13	
C1720	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	D1612	8-719-991-33	DIODE 1SS133T-77	
C1721	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	D1613	8-719-921-86	DIODE MTZJ-13	
C1723	1-163-235-11	CERAMIC CHIP 22pF	5% 50V	D1614	8-719-991-33	DIODE 1SS133T-77	
C1724	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D1615	8-719-991-33	DIODE 1SS133T-77	
C1725	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D1616	8-719-991-33	DIODE 1SS133T-77	
C1726	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D1617	8-719-403-00	DIODE MA3240-TX	
C1727	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D1618	8-719-991-33	DIODE 1SS133T-77	
C1802	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	D1619	8-719-991-33	DIODE 1SS133T-77	
C1803	1-126-935-11	ELECT 470μF	20% 16V	D1620	8-719-403-00	DIODE MA3240-TX	
C1804	1-126-964-11	ELECT 10μF	20% 50V	D1621	8-719-403-00	DIODE MA3240-TX	
C1805	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	D1622	8-719-403-00	DIODE MA3240-TX	
C1806	1-104-665-11	ELECT 100μF	20% 25V	D1703	8-719-109-89	ZENER DIODE RD5.6ESB2	
C1807	1-126-964-11	ELECT 10μF	20% 50V	D1704	8-719-109-89	ZENER DIODE RD5.6ESB2	
C1808	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	D1705	8-719-109-84	ZENER DIODE RD5.1ESB1	
C1809	1-104-665-11	ELECT 100μF	20% 25V	D1706	8-719-109-84	ZENER DIODE RD5.1ESB1	
C1810	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	D1707	8-719-109-84	ZENER DIODE RD5.1ESB1	
C1811	1-104-665-11	ELECT 100μF	20% 25V	D1708	8-719-109-84	ZENER DIODE RD5.1ESB1	
C1812	1-126-964-11	ELECT 10μF	20% 50V	D1709	8-719-109-81	ZENER DIODE RD4.7ESB2	
C1813	1-104-666-11	ELECT 220μF	20% 25V	D1710	8-719-109-81	ZENER DIODE RD4.7ESB2	
C1814	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D1711	8-719-109-81	ZENER DIODE RD4.7ESB2	
C1815	1-104-666-11	ELECT 220μF	20% 25V	D1712	8-719-109-81	ZENER DIODE RD4.7ESB2	
C1818	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	D1801	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C1821	1-126-964-11	ELECT 10μF	20% 50V	D1802	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C1822	1-216-295-91	SHORT 0		D1803	8-719-108-12	ZENER DIODE RD9.1EW	
C1824	1-216-295-91	SHORT 0		D1804	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C1826	1-104-665-11	ELECT 100μF	20% 25V	D1805	8-719-108-12	ZENER DIODE RD9.1EW	
C1827	1-104-664-11	ELECT 47μF	20% 25V	D1806	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C1828	1-104-664-11	ELECT 47μF	20% 25V				
C1829	1-104-664-11	ELECT 47μF	20% 25V				
C1830	1-126-964-11	ELECT 10μF	20% 50V				
C1831	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V				
<CONNECTOR>							
CN1501	*1-564-506-11	PLUG, CONNECTOR 3P		IC1501	8-759-192-71	IC STV9379	
CN1502	1-695-915-11	TAB (CONTACT)		IC1502	8-759-251-31	IC CA0007AM	
CN1601	*1-564-508-11	PLUG, CONNECTOR 5P		IC1503	8-759-998-98	IC LM358D	
CN1604	*1-564-507-11	PLUG, CONNECTOR 4P		IC1602	8-759-250-68	IC TDA7264	
CN1605	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		IC1603	8-759-502-21	IC TDA2822M	
CN1606	*1-779-890-11	CONNECTOR, BOARD TO BOARD 10P		IC1701	8-752-908-27	IC CXP86213-003S	
CN1701	*1-564-511-11	PLUG, CONNECTOR 8P		IC1702	8-759-527-76	IC M24C08-MN6T	
CN1702	*1-564-516-11	PLUG, CONNECTOR 13P		IC1703	8-759-100-96	IC μPC4558G2	
CN1703	*1-779-890-11	CONNECTOR, BOARD TO BOARD 10P		IC1704	8-759-100-96	IC μPC4558G2	
CN1705	*1-564-505-11	PLUG, CONNECTOR 2P		IC1706	8-759-352-91	IC PST9143NL	
CN1708	*1-564-510-11	PLUG, CONNECTOR 7P		IC1801	8-759-144-82	IC μPC2405HF	
CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P		IC1802	8-759-095-63	IC PQ09RF2	
CN1802	*1-764-334-11	PLUG, CONNECTOR 11P		IC1803	8-759-231-58	IC TA7812S	
CN1803	*1-564-513-11	PLUG, CONNECTOR 10P		IC1804	8-759-069-28	IC PQ05RF11	
CN1804	*1-564-508-11	PLUG, CONNECTOR 5P					
CN1805	*1-779-890-11	CONNECTOR, BOARD TO BOARD 10P					
CN1806	*1-779-890-11	CONNECTOR, BOARD TO BOARD 10P					
CN1807	*1-564-511-11	PLUG, CONNECTOR 8P					
CN1808	*1-564-510-11	PLUG, CONNECTOR 7P					
<DIODE>							
D1501	8-719-109-89	ZENER DIODE RD5.6ESB2		JR1502	1-216-295-91	SHORT 0	
D1502	8-719-908-03	DIODE GP08D		JR1503	1-216-295-91	SHORT 0	
D1503	8-719-908-03	DIODE GP08D		JR1504	1-216-295-91	SHORT 0	
D1504	8-719-991-33	DIODE 1SS133T-77		JR1505	1-216-295-91	SHORT 0	
D1505	8-719-988-61	DIODE 1SS35TE-17		JR1506	1-216-295-91	SHORT 0	
D1601	8-719-991-33	DIODE 1SS133T-77		JR1508	1-216-295-91	SHORT 0	
D1602	8-719-914-43	DIODE DAN202K		JR1510	1-216-295-91	SHORT 0	
D1603	8-719-991-33	DIODE 1SS133T-77		JR1511	1-216-295-91	SHORT 0	
D1604	8-719-991-33	DIODE 1SS133T-77		JR1512	1-216-295-91	SHORT 0	
D1605	8-719-914-43	DIODE DAN202K		JR1513	1-216-295-91	SHORT 0	
				JR1514	1-216-295-91	SHORT 0	
				JR1701	1-216-295-91	SHORT 0	
<JACK>							
				J1601	1-784-653-11	JACK, PHONO 2P	
<CHIP CONDUCTOR>							

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<COIL>							
L1501	1-412-524-11	INDUCTOR	8.2μH	R1517	1-216-081-00	RES,CHIP	22K 5% 1/10W
L1601	1-402-711-11	INDUCTOR		R1518	1-216-353-00	METAL OXIDE	2.2 5% 1W F
L1602	1-402-711-11	INDUCTOR		R1519	1-216-073-00	RES,CHIP	10K 5% 1/10W
L1701	1-408-603-31	INDUCTOR	10μH	R1520	1-216-089-00	RES,CHIP	47K 5% 1/10W
L1702	1-408-598-31	INDUCTOR	3.9μH	R1521	1-216-097-00	RES,CHIP	100K 5% 1/10W
L1802	1-408-603-31	INDUCTOR	10μH	R1522	1-216-089-91	RES,CHIP	47K 5% 1/10W
<TRANSISTOR>				R1525	1-216-083-00	RES,CHIP	27K 5% 1/10W
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1526	1-216-083-00	RES,CHIP	27K 5% 1/10W
Q1502	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R1527	1-216-121-91	RES,CHIP	1M 5% 1/10W
Q1503	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1528	1-216-121-91	RES,CHIP	1M 5% 1/10W
Q1505	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1529	1-216-025-00	RES,CHIP	100 5% 1/10W
Q1601	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1530	1-216-097-00	RES,CHIP	100K 5% 1/10W
Q1602	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1531	1-216-089-00	RES,CHIP	47K 5% 1/10W
Q1603	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1532	1-216-025-00	RES,CHIP	100 5% 1/10W
Q1604	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1533	1-249-377-11	CARBON	0.47 5% 1/4W F
Q1605	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1534	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q1607	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1537	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q1608	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1538	1-216-083-00	RES,CHIP	27K 5% 1/10W
Q1609	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1539	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q1610	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R1540	1-216-091-00	RES,CHIP	56K 5% 1/10W
Q1611	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1541	1-216-091-00	RES,CHIP	56K 5% 1/10W
Q1612	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1542	1-216-093-91	RES,CHIP	68K 5% 1/10W
Q1613	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1543	1-216-093-91	RES,CHIP	68K 5% 1/10W
Q1614	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R1544	1-215-421-00	METAL	1K 1% 1/4W
Q1615	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1601	1-216-025-00	RES,CHIP	100 5% 1/10W
Q1616	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1602	1-216-041-00	RES,CHIP	470 5% 1/10W
Q1617	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R1603	1-216-041-00	RES,CHIP	470 5% 1/10W
Q1701	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1604	1-216-113-00	RES,CHIP	470K 5% 1/10W
Q1702	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1605	1-216-113-00	RES,CHIP	470K 5% 1/10W
Q1703	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1606	1-249-397-11	CARBON	22 5% 1/4W F
Q1704	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1607	1-249-397-11	CARBON	22 5% 1/4W F
Q1705	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1608	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q1706	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1609	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q1707	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1610	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q1708	8-729-027-38	TRANSISTOR DTA144EKA-T146		R1611	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q1709	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1614	1-216-357-00	METAL OXIDE	4.7 5% 1W F
Q1710	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1615	1-216-357-00	METAL OXIDE	4.7 5% 1W F
Q1711	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1617	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
Q1801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1618	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q1802	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1620	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
Q1803	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1625	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
Q1804	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1626	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
Q1805	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1629	1-216-049-00	RES,CHIP	1K 5% 1/10W
Q1806	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1630	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q1807	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1631	1-249-389-11	CARBON	4.7 5% 1/4W F
Q1808	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R1632	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q1809	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1633	1-216-089-91	RES,CHIP	47K 5% 1/10W
<RESISTOR>				R1634	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1501	1-216-353-00	METAL OXIDE	2.2 5% 1W F	R1635	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1502	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W	R1636	1-216-075-00	RES,CHIP	12K 5% 1/10W
R1504	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R1637	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1505	1-249-377-11	CARBON	0.47 5% 1/4W F	R1638	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1506	1-215-888-00	METAL OXIDE	220 5% 2W F	R1639	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1507	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1640	1-216-025-00	RES,CHIP	100 5% 1/10W
R1508	1-249-383-11	CARBON	1.5 5% 1/4W F	R1641	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1509	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W	R1642	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1510	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R1643	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1511	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1644	1-216-075-00	RES,CHIP	12K 5% 1/10W
R1512	1-216-085-00	RES,CHIP	33K 5% 1/10W	R1645	1-216-041-00	RES,CHIP	470 5% 1/10W
R1513	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1648	1-249-381-11	CARBON	1 5% 1/4W F
R1514	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1649	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1515	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1650	1-216-033-00	RES,CHIP	220 5% 1/10W
R1516	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1651	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R1652	1-216-099-00	RES,CHIP	120K 5% 1/10W
				R1653	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R1654	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R1655	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R1701	1-216-065-00	RES,CHIP	4.7K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1702	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1772	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1703	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1773	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1704	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1774	1-216-025-00	RES,CHIP	100 5% 1/10W
R1705	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1775	1-216-115-00	RES,CHIP	560K 5% 1/10W
R1706	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1778	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1707	1-216-025-00	RES,CHIP	100 5% 1/10W	R1786	1-216-025-00	RES,CHIP	100 5% 1/10W
R1708	1-216-025-00	RES,CHIP	100 5% 1/10W	R1787	1-216-025-00	RES,CHIP	100 5% 1/10W
R1709	1-216-025-00	RES,CHIP	100 5% 1/10W	R1788	1-216-025-00	RES,CHIP	100 5% 1/10W
R1710	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1789	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1711	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1790	1-216-025-00	RES,CHIP	100 5% 1/10W
R1712	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1791	1-216-025-00	RES,CHIP	100 5% 1/10W
R1713	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1792	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1714	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1793	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1715	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1794	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1716	1-216-033-00	RES,CHIP	220 5% 1/10W	R1795	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1717	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1802	1-215-925-11	METAL OXIDE	22K 5% 3W F
R1718	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1803	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1719	1-216-033-00	RES,CHIP	220 5% 1/10W	R1806	1-216-021-00	RES,CHIP	68 5% 1/10W
R1720	1-216-033-00	RES,CHIP	220 5% 1/10W	R1807	1-216-295-91	SHORT	0
R1721	1-216-033-00	RES,CHIP	220 5% 1/10W	R1808	1-216-295-91	SHORT	0
R1722	1-216-033-00	RES,CHIP	220 5% 1/10W	R1809	1-216-097-00	RES,CHIP	100K 5% 1/10W
R1725	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1810	1-216-021-00	RES,CHIP	68 5% 1/10W
R1726	1-216-295-91	SHORT	0	R1811	1-216-025-00	RES,CHIP	100 5% 1/10W
R1727	1-216-033-00	RES,CHIP	220 5% 1/10W	R1812	1-216-025-00	RES,CHIP	100 5% 1/10W
R1728	1-216-025-00	RES,CHIP	100 5% 1/10W	R1813	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1729	1-216-025-00	RES,CHIP	100 5% 1/10W	R1814	1-216-023-00	RES,CHIP	82 5% 1/10W
R1730	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1815	1-216-025-00	RES,CHIP	100 5% 1/10W
R1731	1-216-033-00	RES,CHIP	220 5% 1/10W	R1816	1-216-025-00	RES,CHIP	100 5% 1/10W
R1732	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1817	1-216-025-00	RES,CHIP	100 5% 1/10W
R1733	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1818	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R1734	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1819	1-216-295-91	SHORT	0
R1735	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1820	1-216-295-91	SHORT	0
R1736	1-216-033-00	RES,CHIP	220 5% 1/10W	R1821	1-216-025-00	RES,CHIP	100 5% 1/10W
R1737	1-216-033-00	RES,CHIP	220 5% 1/10W	R1824	1-216-295-91	SHORT	0
R1738	1-216-025-00	RES,CHIP	100 5% 1/10W	R1825	1-216-295-91	SHORT	0
R1739	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1826	1-216-295-91	SHORT	0
R1740	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1829	1-216-295-91	SHORT	0
R1741	1-216-033-00	RES,CHIP	220 5% 1/10W	R1830	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1742	1-216-033-00	RES,CHIP	220 5% 1/10W	R1831	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R1743	1-216-025-00	RES,CHIP	100 5% 1/10W	R1832	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R1744	1-216-033-00	RES,CHIP	220 5% 1/10W	R1833	1-216-041-00	RES,CHIP	470 5% 1/10W
R1745	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1834	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1746	1-216-025-00	RES,CHIP	100 5% 1/10W	R1835	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1747	1-216-025-00	RES,CHIP	100 5% 1/10W	R1836	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1748	1-216-025-00	RES,CHIP	100 5% 1/10W	R1837	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1749	1-216-033-00	RES,CHIP	220 5% 1/10W	R1838	1-216-041-00	RES,CHIP	470 5% 1/10W
R1750	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1839	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1751	1-216-033-00	RES,CHIP	220 5% 1/10W	R1840	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1752	1-216-025-00	RES,CHIP	100 5% 1/10W	R1841	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1753	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1842	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R1754	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1843	1-216-041-00	RES,CHIP	470 5% 1/10W
R1755	1-216-025-00	RES,CHIP	100 5% 1/10W	R1844	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1756	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1845	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1757	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1846	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1758	1-216-025-00	RES,CHIP	100 5% 1/10W	R1847	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1759	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1848	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1760	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1849	1-216-041-00	RES,CHIP	470 5% 1/10W
R1762	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	<RELAY>			
R1763	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W	RY1601	1-755-028-11	RELAY	
R1764	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	RY1602	1-755-028-11	RELAY	
R1765	1-216-073-00	RES,CHIP	10K 5% 1/10W	<TERMINAL BOARD>			
R1766	1-216-049-91	RES,CHIP	1K 5% 1/10W	TB1601	1-694-303-11	TERMINAL, PUSH	
R1767	1-216-113-00	RES,CHIP	470K 5% 1/10W				
R1768	1-216-049-91	RES,CHIP	1K 5% 1/10W				
R1769	1-216-115-00	RES,CHIP	560K 5% 1/10W				
R1770	1-216-049-91	RES,CHIP	1K 5% 1/10W				
R1771	1-216-113-00	RES,CHIP	470K 5% 1/10W				

The components identified by shading and mark Δ are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CRYSTAL>	
X1701	1-579-125-11	VIBRATOR, CERAMIC	

	* A-1646-200-AH1 BOARD, COMPLETE		

		<CAPACITOR>	
C3001	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C3003	1-126-157-11	ELECT 10 μ F	20% 16V
C3204	1-163-037-11	CERAMIC CHIP 0.022 μ F	10% 50V
C3205	1-163-037-11	CERAMIC CHIP 0.022 μ F	10% 50V
		<CONNECTOR>	
CN3201	* 1-564-525-11	PLUG, CONNECTOR 10P	
CN3202	* 1-564-526-31	PLUG, CONNECTOR 11P	
CN3204	* 1-564-520-11	PLUG, CONNECTOR 5P	
		<DIODE>	
D3008	* 4-348-208-00	HOLDER, LED	
D3008	8-719-069-94	DIODE TLSU124	
		<IC>	
IC3002	8-742-088-10	HYB IC SBX1780-51	
		<JACK>	
J3201	1-764-073-11	TERMINAL BLOCK, S 4P (S-VIDEO IN)	
J3202	1-691-293-11	JACK (HEAD PHONE)	
		<CHIP CONDUCTOR>	
JR3011	1-216-295-91	SHORT	0
JR3012	1-216-295-91	SHORT	0
JR3013	1-216-295-91	SHORT	0
JR3014	1-216-295-91	SHORT	0
		<COIL>	
L3201	1-408-615-31	INDUCTOR 100 μ H	
L3202	1-408-615-31	INDUCTOR 100 μ H	
		<TRANSISTOR>	
Q3002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<RESISTOR>	
R3001	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
R3002	1-216-675-91	METAL CHIP 10K	0.50% 1/10W
R3006	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R3007	1-216-661-11	METAL CHIP 2.7K	0.50% 1/10W
R3009	1-216-041-00	RES,CHIP 470	5% 1/10W
R3010	1-216-045-00	RES,CHIP 680	5% 1/10W
R3201	1-216-295-91	SHORT	0
R3202	1-216-025-91	RES,CHIP 100	5% 1/10W
R3203	1-216-025-91	RES,CHIP 100	5% 1/10W
R3207	1-216-654-11	METAL CHIP 1.3K	0.50% 1/10W
R3209	1-216-033-00	RES,CHIP 220	5% 1/10W
R3210	1-216-033-00	RES,CHIP 220	5% 1/10W
R3211	1-216-033-00	RES,CHIP 220	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R3212	1-216-033-00	RES,CHIP 220	5% 1/10W
		<SWITCH>	
S3001	1-571-731-11	SWITCH, TACTIL (PROG +)	
S3002	1-571-731-11	SWITCH, TACTIL (PROG -)	
S3003	1-571-731-11	SWITCH, TACTIL (VOL +)	
S3004	1-571-731-11	SWITCH, TACTIL (VOL -)	
S3005	1-571-731-11	SWITCH, TACTIL (TV/VIDEO)	
S3205	1-571-731-11	SWITCH, TACTIL (AUTO CONVER)	
S3206	1-571-731-11	SWITCH, TACTIL (AUTO PROGR)	

	* A-1646-201-AH2 BOARD, COMPLETE		

		<CONNECTOR>	
CN3003	* 1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P	
CN3004	* 1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P	
		<SWITCH>	
S3006	Δ 1-692-293-11	SWITCH, PUSH (AC POWER)(1 KEY)	

	* A-1648-028-A U BOARD, COMPLETE		

		<CAPACITOR>	
C4901	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C4902	1-163-133-00	CERAMIC CHIP 470pF	5% 50V
C4903	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C4904	1-163-133-00	CERAMIC CHIP 470pF	5% 50V
		<CONNECTOR>	
CN4901	* 1-564-522-11	PLUG, CONNECTOR 7P	
CN4902	* 1-564-523-11	PLUG, CONNECTOR 8P	
		<DIODE>	
D4906	8-719-977-22	ZENER DIODE DTZ9.1	
D4907	8-719-977-22	ZENER DIODE DTZ9.1	
D4908	8-719-977-22	ZENER DIODE DTZ9.1	
		<JACK>	
J4901	1-695-549-11	SOCKET, PIN 21P	
		<COIL>	
L4900	1-216-295-91	SHORT	0
L4901	1-216-295-91	SHORT	0
L4902	1-216-295-91	SHORT	0
L4903	1-216-295-91	SHORT	0
		<RESISTOR>	
R4901	1-412-002-31	INDUCTOR CHIP	4.7 μ H
R4903	1-412-002-31	INDUCTOR CHIP	4.7 μ H
R4907	1-412-002-31	INDUCTOR CHIP	4.7 μ H

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The components identified by shading and mark Δ are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK
R4910	1-216-295-91	SHORT 0	
R4912	1-216-295-91	SHORT 0	
R4913	1-216-295-91	SHORT 0	
R4915	1-412-002-31	INDUCTOR CHIP 4.7 μ H	

* A-1652-068-AZG BOARD, COMPLETE			

4-382-854-11 SCREW (M3X10), P, SW (+)			
<CAPACITOR>			
C1433	1-104-999-11	MYLAR 0.1 μ F 10% 200V	
C1434	1-107-362-11	MYLAR 0.0047 μ F 10% 200V	
C1435	1-107-667-11	ELECT 2.2 μ F 20% 160V	
C1436	1-130-471-00	MYLAR 0.001 μ F 5% 50V	
C1437	1-130-471-00	MYLAR 0.001 μ F 5% 50V	
C1438	1-107-362-11	MYLAR 0.0047 μ F 10% 200V	
C1439	1-161-830-00	CERAMIC 0.0047 μ F 99% 500V	
C1440	1-104-664-11	ELECT 47 μ F 20% 25V	
C1441	1-104-999-11	MYLAR 0.1 μ F 10% 200V	
C1443	1-126-935-11	ELECT 470 μ F 20% 16V	
C1444	1-107-639-11	ELECT 47 μ F 20% 160V	
C1445	1-126-933-11	ELECT 100 μ F 20% 16V	
C1446	1-126-933-11	ELECT 100 μ F 20% 16V	
C1450	1-130-471-00	MYLAR 0.001 μ F 5% 50V	
<CONNECTOR>			
CN1431	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN1432	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN1433	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1434	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1436	1-695-915-11	TAB (CONTACT)	
CN1461	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1462	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1464	* 1-564-507-11	PLUG, CONNECTOR 4P	
<DIODE>			
D1431	8-719-110-88	ZENER DIODE RD39ESB2 (G)	
D1432	8-719-110-88	ZENER DIODE RD39ESB2	
D1433	8-719-991-33	DIODE ISS133T-77	
<CONNECTOR>			
DY1431	Δ 1-451-455-11	DEFLECTION YOKE (G)	
<COIL>			
L1431	1-410-478-11	INDUCTOR 47 μ H	
<TRANSISTOR>			
Q1431	8-729-017-06	TRANSISTOR 2SC4793	
Q1432	8-729-017-05	TRANSISTOR 2SA1837	
Q1433	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1434	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1435	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1436	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<RESISTOR>			
R1431	1-249-414-11	CARBON 560 5% 1/4W	
R1432	1-249-414-11	CARBON 560 5% 1/4W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1433	1-249-377-11	CARBON 0.47 5% 1/4W	F
R1435	1-216-475-11	METAL OXIDE 120 5% 3W	F
R1436	1-216-475-11	METAL OXIDE 120 5% 3W	F
R1437	1-249-414-11	CARBON 560 5% 1/4W	
R1438	1-215-451-00	METAL 18K 1% 1/4W	
R1439	1-215-451-00	METAL 18K 1% 1/4W	
R1440	1-249-414-11	CARBON 560 5% 1/4W	F
R1441	1-247-815-91	CARBON 220 5% 1/4W	
R1442	1-247-815-91	CARBON 220 5% 1/4W	
R1443	1-249-377-11	CARBON 0.47 5% 1/4W	F
R1444	1-247-815-91	CARBON 220 5% 1/4W	
R1445	1-249-403-11	CARBON 68 5% 1/4W	
R1448	1-249-417-11	CARBON 1K 5% 1/4W	
R1449	1-249-403-11	CARBON 68 5% 1/4W	
R1450	1-249-417-11	CARBON 1K 5% 1/4W	
R1451	1-247-815-91	CARBON 220 5% 1/4W	
R1452	1-249-417-11	CARBON 1K 5% 1/4W	
R1453	1-249-401-11	CARBON 47 5% 1/4W	
R1454	1-260-311-11	CARBON 39 5% 1/2W	
R1455	1-249-384-11	CARBON 1.8 5% 1/4W	F
R1456	1-215-912-11	METAL OXIDE 150 5% 3W	F
R1457	1-249-417-11	CARBON 1K 5% 1/4W	F
R1458	1-249-384-11	CARBON 1.8 5% 1/4W	F
R1459	1-249-400-11	CARBON 39 5% 1/4W	F
R1461	1-249-414-11	CARBON 560 5% 1/4W	
R1462	1-249-414-11	CARBON 560 5% 1/4W	
R1463	1-249-393-11	CARBON 10 5% 1/4W	
R1465	1-216-475-11	METAL OXIDE 120 5% 3W	F
R1468	1-216-475-11	METAL OXIDE 120 5% 3W	F

* A-1652-065-AN BOARD, COMPLETE			

<CAPACITOR>			
C3101	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3102	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3103	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C3104	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3105	1-126-964-11	ELECT 10 μ F 20% 50V	
C3106	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3107	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3109	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C3110	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3111	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C3112	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3113	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3114	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3115	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C3116	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3118	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3121	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3122	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3128	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C3129	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3130	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3131	1-163-263-11	CERAMIC CHIP 330pF 5% 50V	
C3132	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3134	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3135	1-163-222-11	CERAMIC CHIP 5pF 0.25pF 50V	
C3136	1-163-222-11	CERAMIC CHIP 5pF 0.25pF 50V	
C3137	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3138	1-107-888-11	ELECT 47 μ F 20% 25V	
C3142	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C3143	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C3201	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3202	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3203	1-126-964-11	ELECT 10μF	20% 50V
C3204	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3205	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3206	1-126-964-11	ELECT 10μF	20% 50V
C3207	1-126-964-11	ELECT 10μF	20% 50V
C3208	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
C3209	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
C3210	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3211	1-126-964-11	ELECT 10μF	20% 50V
C3212	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3213	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C3214	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3215	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3216	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3217	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3218	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3219	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3220	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C3221	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C3222	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3223	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3224	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3225	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C3226	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3227	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3228	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3229	1-163-227-11	CERAMIC CHIP 10pF	0.5pF 50V
C3230	1-107-888-11	ELECT 47μF	20% 25V
C3231	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3232	1-107-888-11	ELECT 47μF	20% 25V
C3233	1-163-263-11	CERAMIC CHIP 330pF	5% 50V
C3305	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3308	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3311	1-107-888-11	ELECT 47μF	20% 25V
C3315	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3318	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3319	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C3320	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3323	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3324	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3325	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3326	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C3327	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C3328	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3329	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3330	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3331	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3332	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C3333	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3334	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3336	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3337	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3339	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3340	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3341	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3342	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3343	1-163-263-11	CERAMIC CHIP 330pF	5% 50V
C3344	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3345	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3346	1-107-888-11	ELECT 47μF	20% 25V
C3347	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3401	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3402	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3412	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3413	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3414	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C3415	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3416	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3417	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3418	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3419	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3420	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3421	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C3422	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C3425	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
< FILTER >			
CF3101	1-543-948-22	FERRITE	0μH
CF3102	1-543-948-22	FERRITE	0μH
CF3104	1-543-948-22	FERRITE	0μH
CF3106	1-216-295-91	SHORT	0
CF3108	1-543-948-22	FERRITE	0μH
CF3109	1-543-948-22	FERRITE	0μH
CF3110	1-543-948-22	FERRITE	0μH
CF3111	1-543-948-22	FERRITE	0μH
CF3112	1-543-948-22	FERRITE	0μH
CF3113	1-543-948-22	FERRITE	0μH
CF3114	1-543-948-22	FERRITE	0μH
CF3115	1-543-948-22	FERRITE	0μH
CF3116	1-500-245-11	FERRITE	0μH
CF3122	1-500-245-11	FERRITE	0μH
CF3123	1-500-245-11	FERRITE	0μH
CF3124	1-500-245-11	FERRITE	0μH
CF3201	1-500-245-11	FERRITE	0μH
CF3202	1-500-245-11	FERRITE	0μH
CF3203	1-500-245-11	FERRITE	0μH
CF3301	1-414-232-22	INDUCTOR CHIP	0μH
CF3302	1-414-232-22	INDUCTOR CHIP	0μH
CF3303	1-414-232-22	INDUCTOR CHIP	0μH
CF3304	1-414-232-22	INDUCTOR CHIP	0μH
CF3305	1-414-232-22	INDUCTOR CHIP	0μH
CF3306	1-414-232-22	INDUCTOR CHIP	0μH
CF3307	1-414-232-22	INDUCTOR CHIP	0μH
CF3308	1-414-232-22	INDUCTOR CHIP	0μH
CF3309	1-500-245-11	FERRITE	0μH
< CONNECTOR >			
CN3101	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN3102	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN3301	1-563-486-11	SOCKET, CONNECTOR	
CN3302	* 1-785-719-11	CONNECTOR 26P	
CN3303	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN3401	1-785-770-11	CONNECTOR, PCMCIA	
< DIODE >			
D3305	8-719-914-43	DIODE DAN202K	
D3306	8-719-421-59	DIODE MA3130WA-TX	
D3307	8-719-421-59	DIODE MA3130WA-TX	
D3308	8-719-421-59	DIODE MA3130WA-TX	
D3309	8-719-421-59	DIODE MA3130WA-TX	
< FUSE >			
F3301	Δ 1-533-900-21	FUSE	
< FILTER >			
FL3101	1-239-899-21	FILTER, CHIP EMI	
FL3102	1-239-899-21	FILTER, CHIP EMI	
FL3107	1-239-899-21	FILTER, CHIP EMI	
FL3108	1-239-899-21	FILTER, CHIP EMI	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
FL3109	1-239-558-11	FILTER, CHIP EMI		< TRANSISTOR >			
FL3110	1-239-558-11	FILTER, CHIP EMI		Q3101	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL3111	1-239-558-11	FILTER, CHIP EMI		Q3201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL3112	1-239-558-11	FILTER, CHIP EMI		Q3202	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL3113	1-239-558-11	FILTER, CHIP EMI		Q3301	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
FL3114	1-239-558-11	FILTER, CHIP EMI		Q3302	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL3201	1-239-899-21	FILTER, CHIP EMI		Q3303	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL3203	1-239-899-21	FILTER, CHIP EMI		Q3401	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL3206	1-239-899-21	FILTER, CHIP EMI		Q3402	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL3301	1-239-899-21	FILTER, CHIP EMI		< RESISTOR >			
FL3302	1-239-899-21	FILTER, CHIP EMI		R3102	1-216-025-91	RES, CHIP 100 5%	1/10W
FL3307	1-239-899-21	FILTER, CHIP EMI		R3103	1-216-025-91	RES, CHIP 100 5%	1/10W
FL3309	1-239-899-21	FILTER, CHIP EMI		R3105	1-216-025-91	RES, CHIP 100 5%	1/10W
FL3310	1-239-899-21	FILTER, CHIP EMI		R3107	1-216-025-91	RES, CHIP 100 5%	1/10W
FL3311	1-239-899-21	FILTER, CHIP EMI		R3108	1-216-073-00	RES, CHIP 10K 5%	1/10W
FL3401	1-239-899-21	FILTER, CHIP EMI		R3109	1-216-049-91	RES, CHIP 1K 5%	1/10W
FL3402	1-239-899-21	FILTER, CHIP EMI		R3110	1-216-049-91	RES, CHIP 1K 5%	1/10W
FL3403	1-239-899-21	FILTER, CHIP EMI		R3111	1-216-049-91	RES, CHIP 1K 5%	1/10W
< IC >				R3112	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3101	8-759-398-17	IC MC74HC04ADR2		R3113	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3102	8-759-560-76	IC 74LV08D-118		R3114	1-216-049-91	RES, CHIP 1K 5%	1/10W
IC3103	8-759-590-03	IC AVIA-GTX-PCO		R3115	1-216-049-91	RES, CHIP 1K 5%	1/10W
IC3112	8-759-378-26	IC ST24C16FM6-TR		R3116	1-216-295-91	SHORT 0	
IC3113	8-759-542-02	IC KM416V1204CT-6		R3117	1-216-295-91	SHORT 0	
IC3114	8-759-542-02	IC KM416V1204CT-6		R3120	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3115	8-759-271-86	IC TC7SH04FU		R3121	1-216-017-91	RES, CHIP 47 5%	1/10W
IC3117	8-759-394-05	IC TC7SH08F-TE85R		R3122	1-216-017-91	RES, CHIP 47 5%	1/10W
IC3118	8-759-544-28	IC MK2720STR		R3124	1-216-017-91	RES, CHIP 47 5%	1/10W
IC3119	8-759-542-07	IC 74LV244D-118		R3125	1-216-295-91	SHORT 0	
IC3120	8-759-394-05	IC TC7SH08F-TE85R		R3126	1-216-049-91	RES, CHIP 1K 5%	1/10W
IC3201	8-759-701-39	IC NJM3404AM		R3128	1-216-057-00	RES, CHIP 2.2K 5%	1/10W
IC3202	8-759-485-02	IC SAA7120H/V1		R3129	1-216-295-91	SHORT 0	
IC3203	8-759-491-20	IC PCM1725U		R3130	1-216-295-91	SHORT 0	
IC3204	8-759-492-07	IC 74LV86D-118		R3132	1-216-017-91	RES, CHIP 47 5%	1/10W
IC3205	8-759-587-87	IC SAA7201H/C3		R3133	1-216-017-91	RES, CHIP 47 5%	1/10W
IC3206	8-759-492-08	IC 74LV164D-118		R3134	1-216-017-91	RES, CHIP 47 5%	1/10W
IC3207	8-759-470-99	IC TMS626162-DGE		R3135	1-216-017-91	RES, CHIP 47 5%	1/10W
IC3208	8-759-991-41	IC LM78L05ACZ		R3136	1-216-295-91	SHORT 0	
IC3209	8-759-394-05	IC TC7SH08F-TE85R		R3138	1-216-295-91	SHORT 0	
IC3301	8-759-342-60	IC PST575DMT-T1		R3141	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3304	8-759-542-02	IC KM416V1204CT-6		R3142	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3307	8-759-542-02	IC KM416V1204CT-6		R3143	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3308	8-759-539-09	IC MCF5206EFT25		R3144	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3310	8-759-561-60	IC MBM29LV160B-90PTFN		R3145	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3312	8-759-542-03	IC 74LV11D-118		R3146	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3313	8-759-492-09	IC 74LV00D-118		R3147	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3315	8-759-577-89	IC 74LV273D-118		R3148	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3316	8-759-542-08	IC 74LV373D-118		R3149	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3317	8-759-542-07	IC 74LV244D-118		R3150	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3318	8-759-560-75	IC 74LV157D-118		R3151	1-216-017-91	RES, CHIP 47 5%	1/10W
IC3320	8-759-492-09	IC 74LV00D-118		R3154	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3321	8-759-271-86	IC TC7SH04FU		R3155	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3402	8-759-542-07	IC 74LV244D-118		R3156	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3403	8-759-542-06	IC 74LV245D-118		R3157	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3404	8-759-542-07	IC 74LV244D-118		R3158	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3405	8-759-542-07	IC 74LV244D-118		R3159	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3406	8-752-394-14	IC CXD1957Q-TL		R3160	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3407	8-759-542-07	IC 74LV244D-118		R3161	1-216-025-91	RES, CHIP 100 5%	1/10W
IC3408	8-759-542-07	IC 74LV244D-118		R3201	1-216-683-11	METAL CHIP 22K 0.50%	1/10W
IC3409	8-759-542-07	IC 74LV244D-118		R3202	1-216-065-00	RES, CHIP 4.7K 5%	1/10W
IC3410	8-759-542-07	IC 74LV244D-118		R3203	1-216-065-00	RES, CHIP 4.7K 5%	1/10W
IC3411	8-759-542-07	IC 74LV244D-118		R3204	1-216-683-11	METAL CHIP 22K 0.50%	1/10W
IC3412	* 8-759-346-63	IC MIC2560-0BWM-T&R		R3205	1-216-043-91	RES, CHIP 560 5%	1/10W
IC3413	8-759-271-86	IC TC7SH04FU		R3206	1-216-675-91	METAL CHIP 10K 0.50%	1/10W
IC3416	8-759-234-77	IC TC4S66F		R3207	1-216-073-00	RES, CHIP 10K 5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R3208	1-216-689-11	RES, CHIP	39K 5% 1/10W	R3357	1-216-295-91	SHORT	0
R3209	1-216-689-11	RES, CHIP	39K 5% 1/10W	R3359	1-216-295-91	SHORT	0
R3210	1-216-675-91	METAL CHIP	10K 0.50% 1/10W				
R3211	1-216-073-00	RES, CHIP	10K 5% 1/10W	R3361	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3212	1-216-057-00	RES, CHIP	2.2K 5% 1/10W	R3362	1-216-049-91	RES, CHIP	1K 5% 1/10W
				R3401	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3213	1-216-057-00	RES, CHIP	2.2K 5% 1/10W	R3402	1-216-073-00	RES, CHIP	10K 5% 1/10W
R3214	1-216-295-91	SHORT	0	R3403	1-216-073-00	RES, CHIP	10K 5% 1/10W
R3215	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R3216	1-216-061-00	RES, CHIP	3.3K 5% 1/10W	R3404	1-216-073-00	RES, CHIP	10K 5% 1/10W
R3217	1-216-025-91	RES, CHIP	100 5% 1/10W	R3405	1-216-081-00	RES, CHIP	22K 5% 1/10W
				R3406	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3218	1-216-025-91	RES, CHIP	100 5% 1/10W	R3408	1-216-295-91	SHORT	0
R3219	1-216-025-91	RES, CHIP	100 5% 1/10W	R3410	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3220	1-216-025-91	RES, CHIP	100 5% 1/10W				
R3222	1-216-049-91	RES, CHIP	1K 5% 1/10W	R3411	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3223	1-216-049-91	RES, CHIP	1K 5% 1/10W	R3412	1-216-049-91	RES, CHIP	1K 5% 1/10W
				R3416	1-216-017-91	RES, CHIP	47 5% 1/10W
R3224	1-216-061-00	RES, CHIP	3.3K 5% 1/10W	R3417	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3226	1-216-017-91	RES, CHIP	47 5% 1/10W	R3418	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3227	1-216-295-91	SHORT	0				
R3228	1-216-022-00	RES, CHIP	75 5% 1/10W	R3419	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3229	1-216-049-91	RES, CHIP	1K 5% 1/10W	R3420	1-216-049-91	RES, CHIP	1K 5% 1/10W
				R3421	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3230	1-216-025-91	RES, CHIP	100 5% 1/10W	R3422	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3231	1-216-025-91	RES, CHIP	100 5% 1/10W	R3423	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3232	1-216-025-91	RES, CHIP	100 5% 1/10W				
R3233	1-216-049-91	RES, CHIP	1K 5% 1/10W	R3424	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3234	1-216-049-91	RES, CHIP	1K 5% 1/10W	R3425	1-216-049-91	RES, CHIP	1K 5% 1/10W
				R3426	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3235	1-216-049-91	RES, CHIP	1K 5% 1/10W	R3427	1-216-049-91	RES, CHIP	1K 5% 1/10W
R3237	1-216-049-91	RES, CHIP	1K 5% 1/10W	R3428	1-216-017-91	RES, CHIP	47 5% 1/10W
R3238	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R3239	1-216-025-91	RES, CHIP	100 5% 1/10W	R3430	1-216-295-91	SHORT	0
R3240	1-216-025-91	RES, CHIP	100 5% 1/10W				
				< RESISTOR CHIP NETWORK >			
R3241	1-216-025-91	RES, CHIP	100 5% 1/10W	RB3105	1-233-575-11	RES, CHIP	NETWORK 22
R3244	1-216-017-91	RES, CHIP	47 5% 1/10W	RB3106	1-233-575-11	RES, CHIP	NETWORK 22
R3245	1-216-017-91	RES, CHIP	47 5% 1/10W	RB3107	1-233-575-11	RES, CHIP	NETWORK 22
R3246	1-216-017-91	RES, CHIP	47 5% 1/10W	RB3108	1-233-575-11	RES, CHIP	NETWORK 22
R3301	1-216-025-91	RES, CHIP	100 5% 1/10W	RB3110	1-233-575-11	RES, CHIP	NETWORK 22
R3302	1-216-025-91	RES, CHIP	100 5% 1/10W	RB3111	1-233-575-11	RES, CHIP	NETWORK 22
R3303	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3112	1-233-575-11	RES, CHIP	NETWORK 22
R3304	1-216-295-91	SHORT	0	RB3113	1-233-575-11	RES, CHIP	NETWORK 22
R3305	1-216-025-91	RES, CHIP	100 5% 1/10W	RB3114	1-233-575-11	RES, CHIP	NETWORK 22
R3306	1-216-025-91	RES, CHIP	100 5% 1/10W	RB3115	1-233-575-11	RES, CHIP	NETWORK 22
R3307	1-216-025-91	RES, CHIP	100 5% 1/10W	RB3116	1-233-575-11	RES, CHIP	NETWORK 22
R3309	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3117	1-233-575-11	RES, CHIP	NETWORK 22
R3310	1-216-073-00	RES, CHIP	10K 5% 1/10W	RB3118	1-233-575-11	RES, CHIP	NETWORK 22
R3311	1-216-043-91	RES, CHIP	560 5% 1/10W	RB3119	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3313	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3120	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3315	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3201	1-233-575-11	RES, CHIP	NETWORK 22
R3327	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3202	1-233-575-11	RES, CHIP	NETWORK 22
R3328	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3203	1-233-575-11	RES, CHIP	NETWORK 22
R3329	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3204	1-233-575-11	RES, CHIP	NETWORK 22
R3330	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3205	1-233-575-11	RES, CHIP	NETWORK 22
R3331	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3206	1-233-575-11	RES, CHIP	NETWORK 22
R3332	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3207	1-233-575-11	RES, CHIP	NETWORK 22
R3333	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3208	1-233-575-11	RES, CHIP	NETWORK 22
R3338	1-216-295-91	SHORT	0	RB3209	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3339	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3210	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3340	1-216-073-00	RES, CHIP	10K 5% 1/10W	RB3301	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3341	1-216-073-00	RES, CHIP	10K 5% 1/10W	RB3302	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3342	1-216-295-91	SHORT	0	RB3303	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3343	1-216-295-91	SHORT	0	RB3304	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3346	1-216-025-91	RES, CHIP	100 5% 1/10W	RB3305	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3347	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3306	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3348	1-216-049-91	RES, CHIP	1K 5% 1/10W	RB3307	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3349	1-216-017-91	RES, CHIP	47 5% 1/10W	RB3308	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3350	1-216-295-91	SHORT	0	RB3309	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3351	1-216-295-91	SHORT	0	RB3310	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3352	1-216-295-91	SHORT	0	RB3311	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
R3354	1-216-295-91	SHORT	0				
R3355	1-216-295-91	SHORT	0				

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The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

N

REF. NO.	PART NO.	DESCRIPTION	REMARK
RB3312	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
RB3313	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
RB3314	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
RB3315	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
RB3316	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
RB3317	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
RB3319	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
RB3320	1-239-409-11	RES, CHIP	NETWORK 47 (3216)
RB3321	1-239-409-11	RES, CHIP	NETWORK 47 (3216)

< CRYSTAL >

X3102 1-781-212-21 VIBRATOR, CRYSTAL

MISCELLANEOUS

Δ 1-223-925-31 RESISTOR ASSY (HIGH-VOLTAGE)
(FOCUS PACK)
 Δ 1-451-455-11 DEFLECTION YOKE
 Δ 1-451-455-41 DEFLECTION YOKE
 Δ 1-452-790-11 NECK ASSY
 Δ 1-452-909-31 MAGNET ASSY, 4 POLE

1-528-864-11 BATTERY, SOLAR
1-529-524-11 SPEAKER (12 CM)
 Δ 1-765-286-11 CORD, POWER (EXCEPT 41DS1U)
 Δ 1-776-860-11 POWER CORD, FILTER (UK) (41DS1U)
 Δ 1-453-331-11 FBT ASSY NX-4012/M

Δ 8-598-955-12 BLOCK ASSY, HIGH-VOLTAGE
 Δ A-1678-183-A MECHASEAL ASSY (R)
 Δ A-1678-184-A MECHASEAL ASSY (G)
 Δ A-1678-185-A MECHASEAL ASSY (B)

ACCESSORIES & PACKING MATERIALS

*3-704-356-01 SHEET (STANDARD), PROTECTION
*4-030-594-11 BAG, PROTECTION
*4-030-895-01 JOINT
*4-205-108-01 INDIVIDUAL CARTON
*4-205-109-01 TRAY

*4-205-110-01 TOP, BOARD
*4-205-111-01 CUSHION UPPER ASSY
*4-205-112-01 CUSHION LOWER ASSY
*4-205-113-01 CUSHION FRONT ASSY
4-205-137-61 MANUAL, INSTRUCTION (ENGLISH)
(41DS1U)

4-205-149-11 MANUAL, INSTRUCTION (ENGLISH,
GERMAN, ITALIAN, GREEK) (41PZ1D)
4-205-149-51 MANUAL, INSTRUCTION (FRENCH,
GERMAN, ITALIAN, DUTCH) (41PZ1B)
4-205-149-81 MANUAL, INSTRUCTION (SPANISH,
PORTUGUESE, DANISH, NORWEGIAN,
SWEDISH, FINNISH) (41PZ1E)
X-4200-550-1 FOOT ASSY, SAFETY

REMOTE COMMANDER

1-418-572-11 REMOTE COMMANDER (RM-892)

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